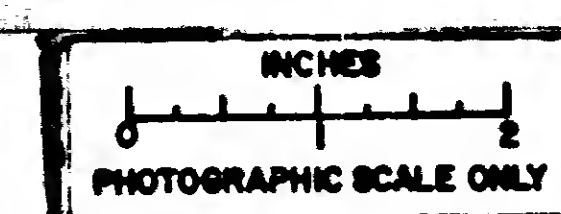


REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
C1	1010393	CAP	22 UF		
C2	1006755-26	CAP.	1.2UF		
C3	1006753-24	CAP.	1.2UF		
C4	1006793-	CAP	.0056UF		
C5	100677724	CAP.	.001UF		
CR1	1010290-	DIODE	10V	5%	
CR2	1010259	DIODE	6.2V	5%	
CR3	1010259	DIODE	6.2V	5%	
CR4	1006751	DIODE			
CR5	1006751	DIODE			
CR6	1006751	DIODE			
CR7	1006751	DIODE			
CR8	1006751	DIODE			
CR9	1006751	DIODE			
CR10	1006751	DIODE			
CR11	1006751	DIODE			
CR12	1006751	DIODE			
CR13	1010259	DIODE	6.2V	5%	
CR14	1010259	DIODE			
CR15	1010259	DIODE			
K1	1006815	RELAY			
Q1	1010376-	TSTR			
Q2	1006752	TSTR			
Q3	1006753	TSTR			
Q4	1006759	TSTR			
Q5	1010376-	TSTR			
Q6	1010376-	TSTR			
Q7	1010376-	TSTR			
Q8	1010376-	TSTR			
Q9	1006804	TSTR			
Q10	1006804	TSTR			
Q11	1006759	TSTR			
Q12	1006759	TSTR			
R1	1006750-24	RES	470.0 Ω	2%	1/4 W
R2	1006750-39	RES	2000.0 Ω	2%	1/4 W
R3	1006750-39	RES	2000.0 Ω	2%	1/4 W
R4	1006750-24	RES	470.0 Ω	2%	1/4 W
R5	1006750-24	RES	470.0 Ω	2%	1/4 W
R6	1006750-18	RES	270.0 Ω	2%	1/4 W
R7	1006750-32	RES	1000.0 Ω	2%	1/4 W
R8	1006750-50	RES	5600.0 Ω	2%	1/4 W
R9	1006750-60	RES	15K.0 Ω	2%	1/4 W
R10	1006750-55	RES	9100.0 Ω	2%	1/4 W
R11	1006750-64	RES	22K.0 Ω	2%	1/4 W
R12	1006750-32	RES	1000.0 Ω	2%	1/4 W
R13	1006750-32	RES	1000.0 Ω	2%	1/4 W
R14	1010389	RES	330.0 Ω		
R15	1006750-15	RES	200.0 Ω	2%	1/4 W
R16	1006750-22	RES	330.0 Ω	2%	1/4 W
R17	1006750-28	RES	680.0 Ω	2%	1/4 W
R18	1006750-12	RES	150.0 Ω	2%	1/4 W
R19	1006750-29	RES	750.0 Ω	2%	1/4 W
R20	1006750-56	RES	10K.0 Ω	2%	1/4 W
R21	1006750-36	RES	1500.0 Ω	2%	1/4 W
R22	1006750-56	RES	10K.0 Ω	2%	1/4 W
R23	1006750-15	RES	62K.0 Ω	2%	1/4 W
R24	1006750-56	RES	10K.0 Ω	2%	1/4 W
R25	1006750-62	RES	18K.0 Ω	2%	1/4 W
R26	1006750-42	RES	2700.0 Ω	2%	1/4 W
R27	1006750-56	RES	10K.0 Ω	2%	1/4 W
R28	1006750-15	RES	62K.0 Ω	2%	1/4 W
R29	1006750-56	RES	10K.0 Ω	2%	1/4 W
R30	1006750-56	RES	10K.0 Ω	2%	1/4 W
R31	1006750-44	RES	3300.0 Ω	2%	1/4 W
R32	1006750-56	RES	10K.0 Ω	2%	1/4 W
R33	1006750-56	RES	10K.0 Ω	2%	1/4 W
R34	1006750-21	RES	620.0 Ω	2%	1/4 W
R35	1006750-56	RES	10K.0 Ω	2%	1/4 W
R36	1006750-34	RES	1200.0 Ω	2%	1/4 W
R37	1006750-56	RES	10K.0 Ω	2%	1/4 W
R38	1006750-56	RES	10K.0 Ω	2%	1/4 W
R39	1006750-56	RES	10K.0 Ω	2%	1/4 W
R40	1006750-22	RES	18K.0 Ω	2%	1/4 W
R41	1006750-43	RES	3000.0 Ω	2%	1/4 W
R42	1006750-59	RES	13K.0 Ω	2%	1/4 W
R43	1006750-21	RES	620.0 Ω	2%	1/4 W
R44	1006750-32	RES	1000.0 Ω	2%	1/4 W

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CLASS B RELEASE TDR No. 00954 DATE 24 June 66

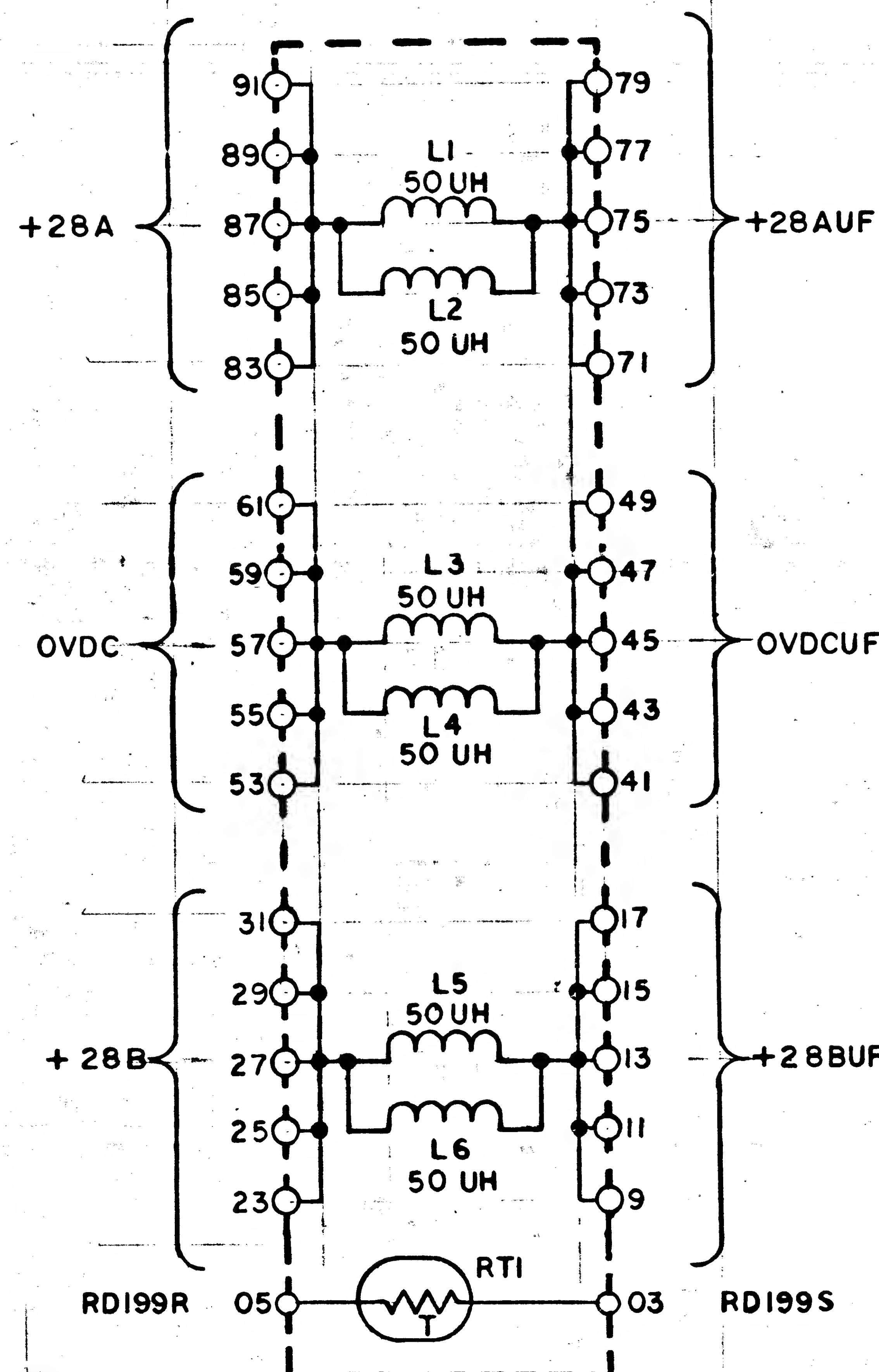
[illegible]

POSTER



NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

A		005700	REVISIONS 09789	
SYM	DESCRIPTION	DATE	APPROVAL	
A	REVISED PER TDRR 11478			



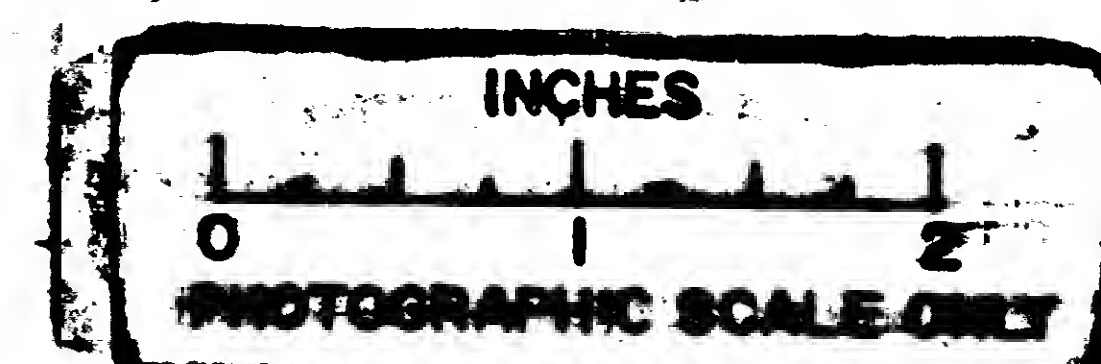
REF DES	PART NO.	DESCRIPTION	VALUE
L1	1006798	INDUCTOR	50UH
L2			
L3			
L4			
L5			
L6			
RTI	1006712-3	THERMISTOR	5000Ω

REF DWG:
FILTER MODULE
DRAWING NO. 1003704

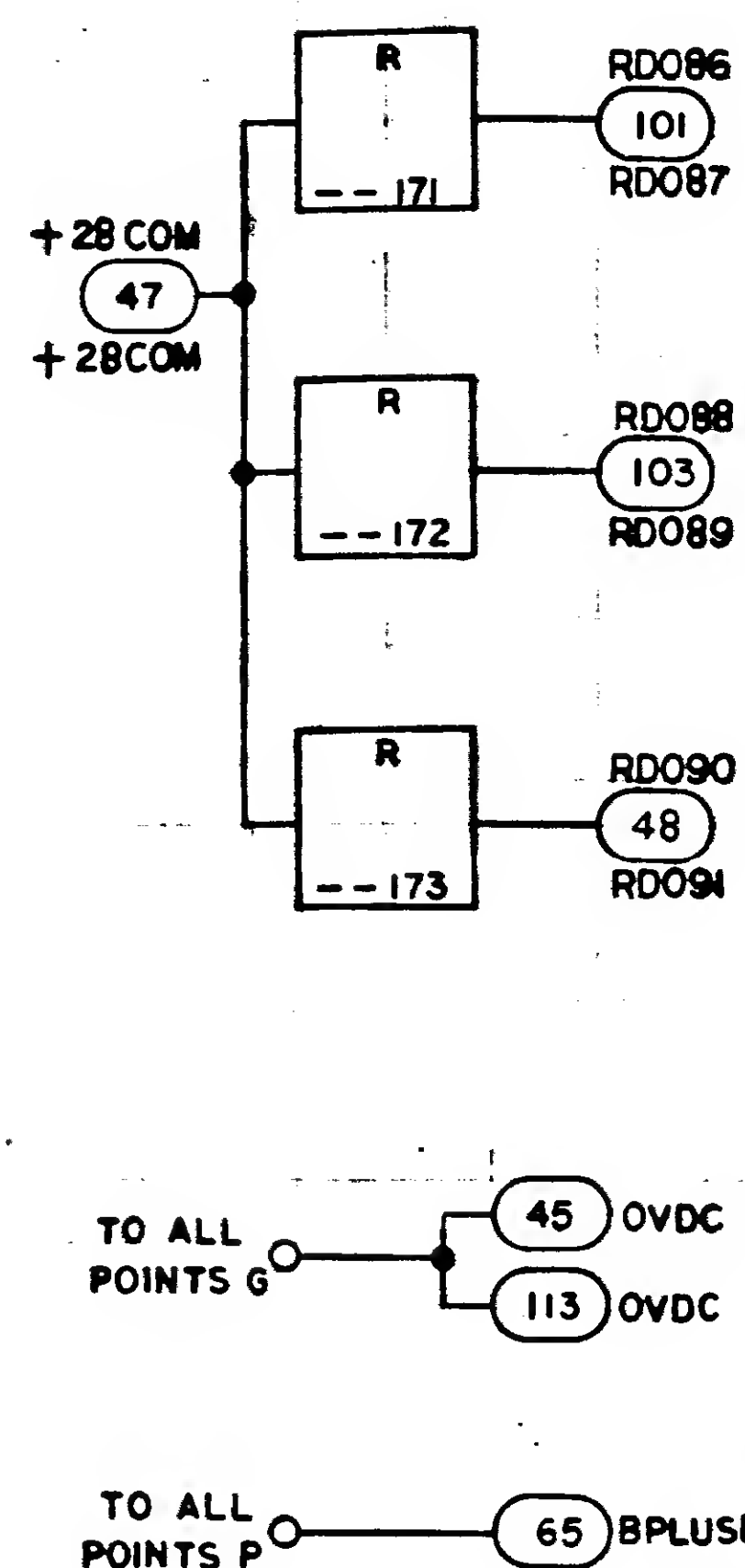
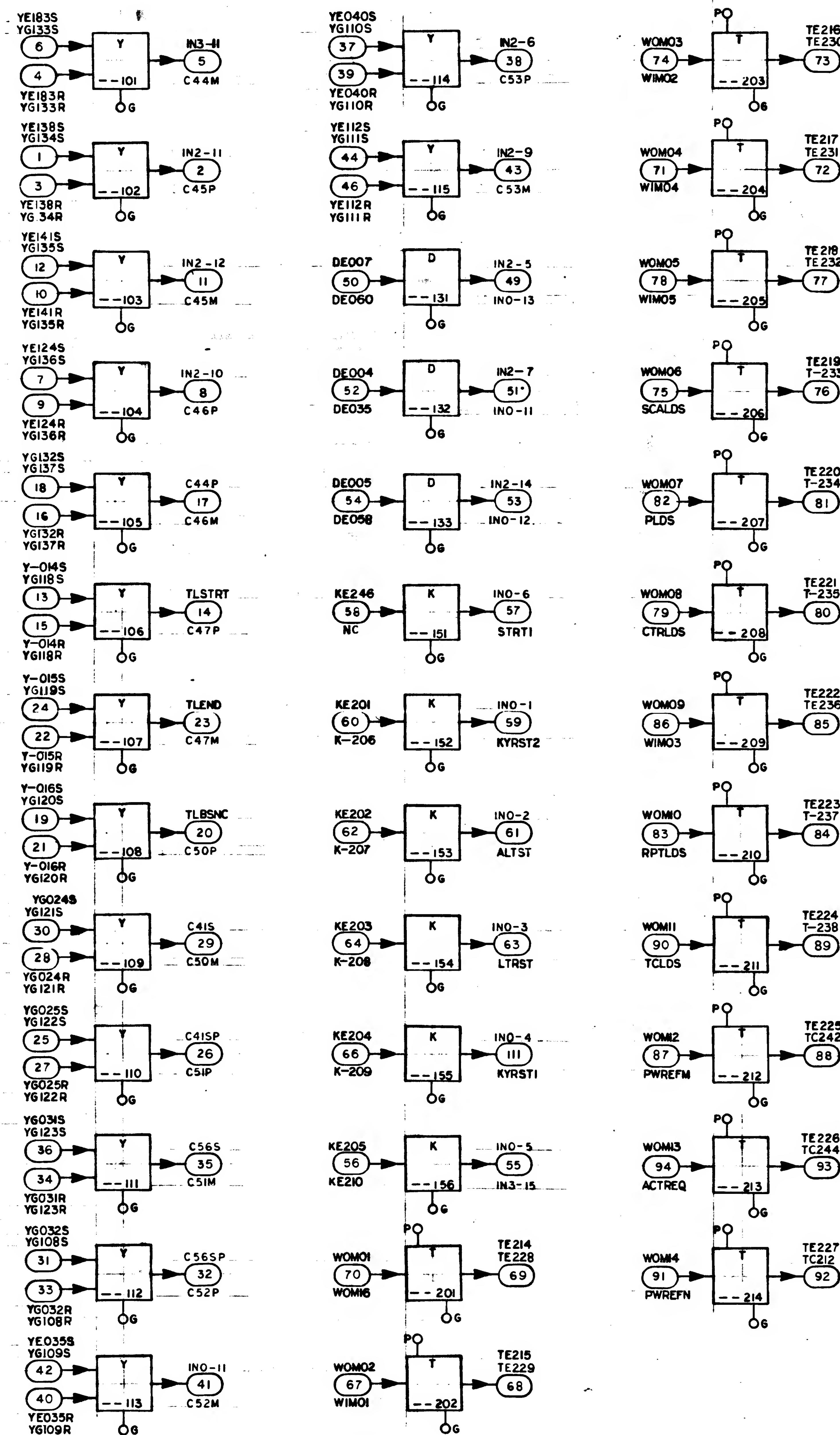
NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH
STANDARDS PRESCRIBED BY MIL-D-70327

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN R.B. Stogner DATE 1 JUN 64 CHECKED G. Barber DATE 1 JUN 64 APPROVAL APPROVAL E. C. H. 1 JUN 64		SCHEMATIC, FILTER MODULE	
NASA APPROVAL K. H. 4/4/64 MIT APPROVAL P. H. 6/2/64		CODE IDENT NO.	NASA DRAWING NO.
		SIZE C	1005700
		SCALE	SHEET 1 OF 1

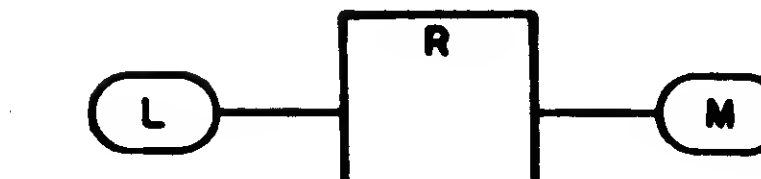
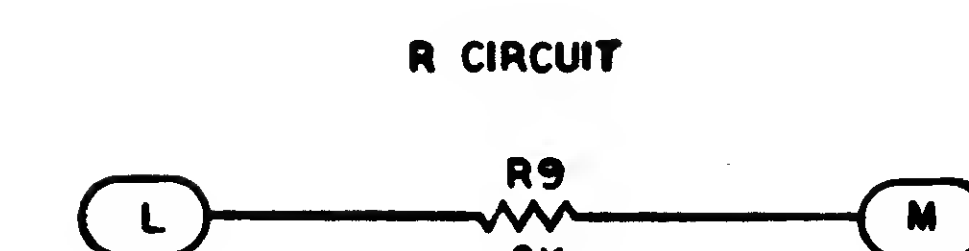
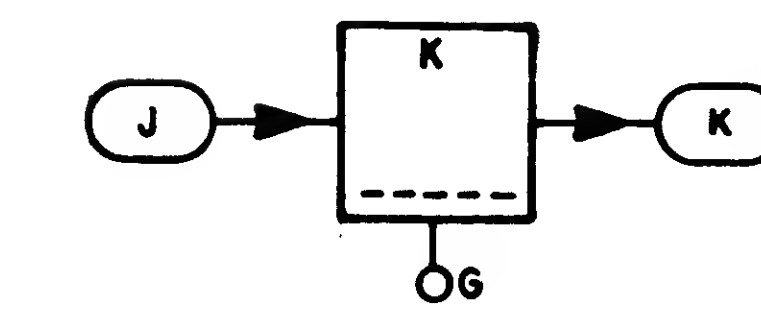
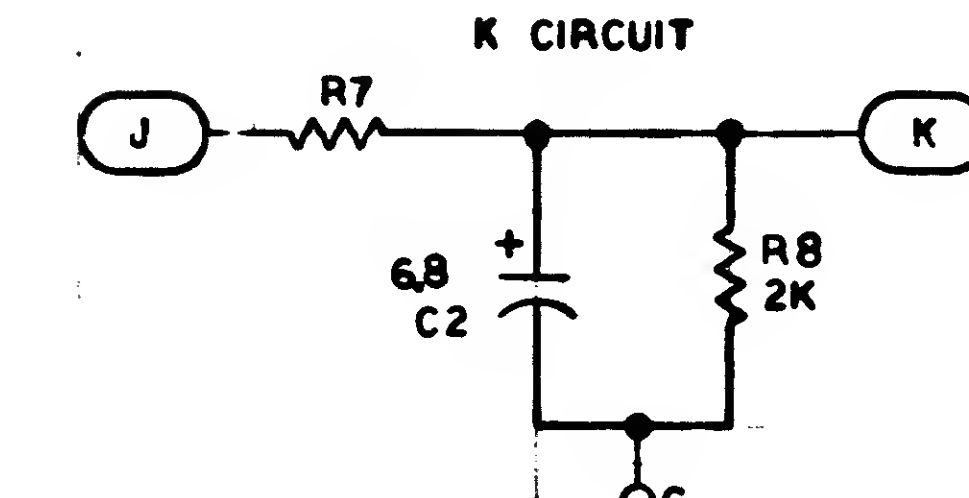
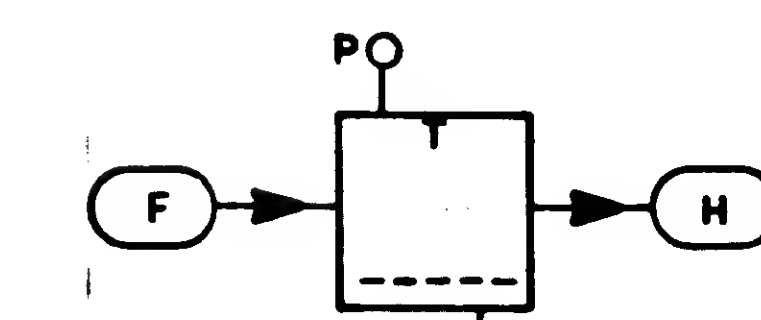
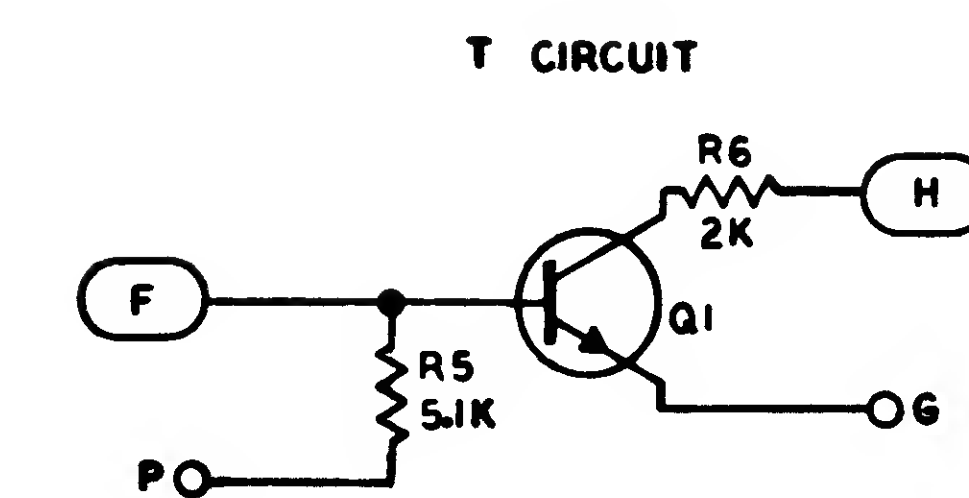
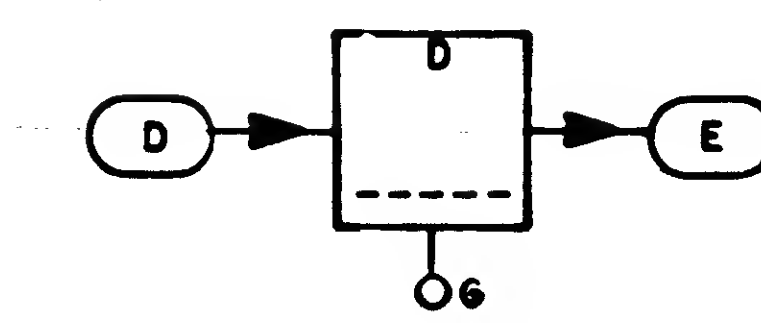
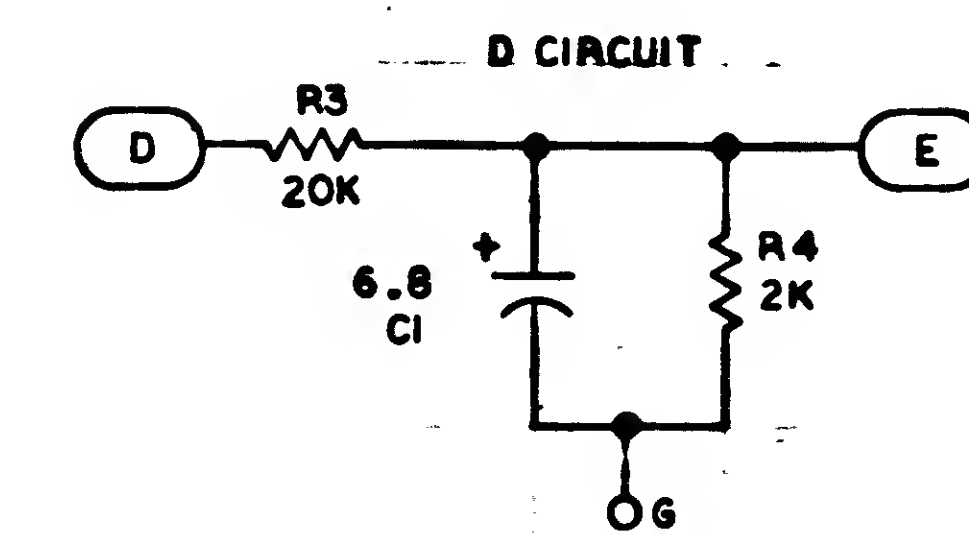
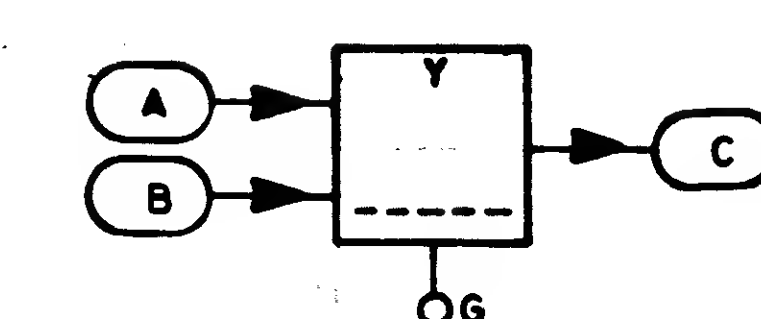
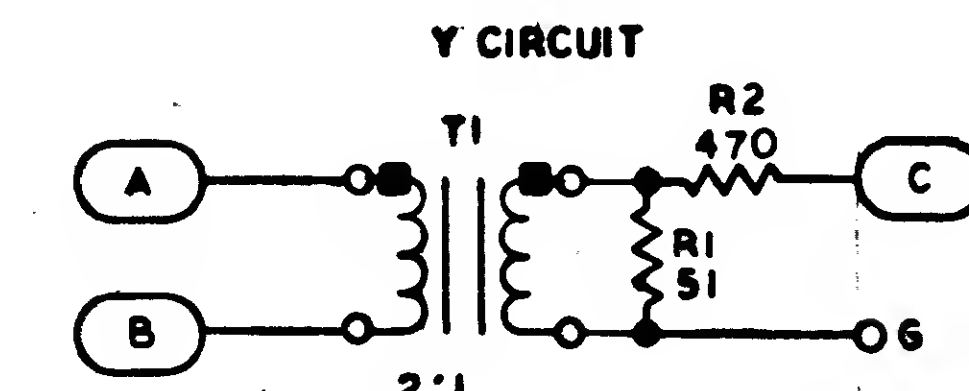


NOTE: THIS DRAWING IS THE PROPERTY OF THE U.S. GOVERNMENT AND IS LOANED TO YOU BY THE U.S. GOVERNMENT. IT IS TO BE USED FOR THE PURPOSES SPECIFIED IN THE ORDER AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE U.S. GOVERNMENT. THIS DRAWING IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT PERMISSION IN WRITING FROM THE U.S. GOVERNMENT.



SCHMATICS

SYMBOLS



REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R1	1006750-1	RESISTOR	51	± 2%	1/4 W
R2	-24	RESISTOR	470	± 2%	1/4 W
R3	-63	RESISTOR	20K	± 2%	1/4 W
R4	-39	RESISTOR	2K	± 2%	1/4 W
R5	-49	RESISTOR	5.1K	± 2%	1/4 W
R6	-39	RESISTOR	2K	± 2%	1/4 W
R7	-39	RESISTOR	2K	± 2%	1/4 W
R8	-39	RESISTOR	2K	± 2%	1/4 W
R9	-39	RESISTOR	2K	± 2%	1/4 W
C1	1006755-2	CAPACITOR	6.8	± 10%	6VDC
C2	1006755-2	CAPACITOR	6.8	± 10%	6VDC
Q1	1006752	TRANSISTOR			
T1	1006762-2	TRANSFORMER			

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- CIRCUIT NUMBERS FOR COMPUTER POSITION 19 ARE PREFIXED BY 71
- CIRCUIT NUMBERS FOR COMPUTER POSITION 39 ARE PREFIXED BY 73
- UPPER SIGNAL NAME USED IN COMPUTER POSITION 19
- LOWER SIGNAL NAME USED IN COMPUTER POSITION 39
- UNLESS OTHERWISE SPECIFIED:
 - RESISTOR VALUES ARE EXPRESSED IN OHMS
 - CAPACITOR VALUES ARE EXPRESSED IN MICROFARADS

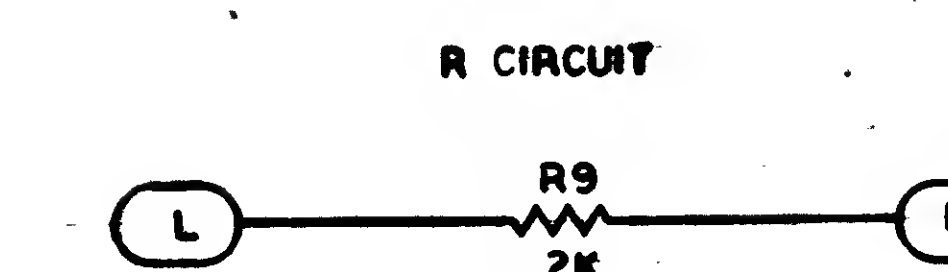
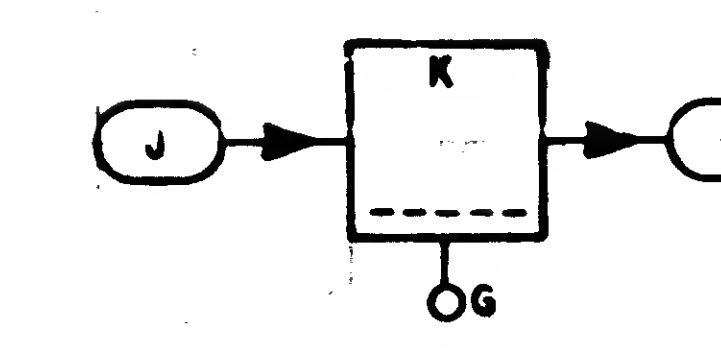
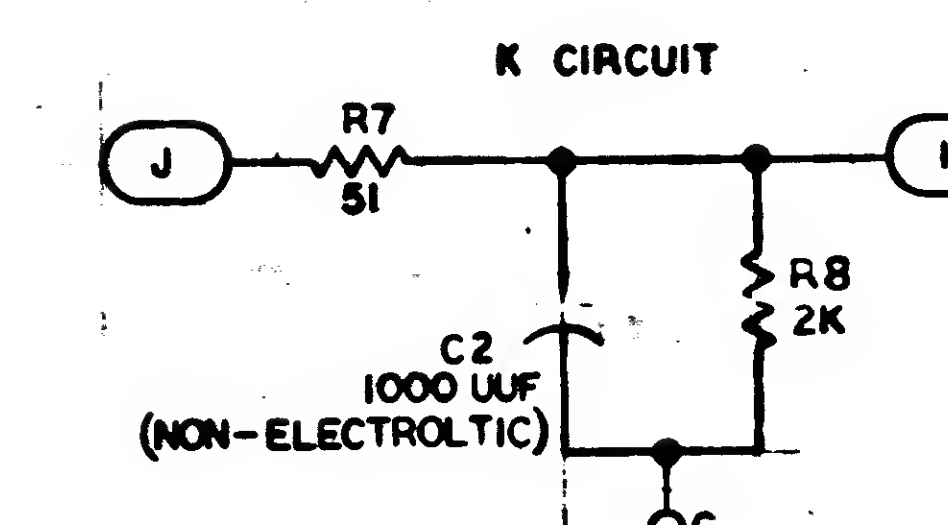
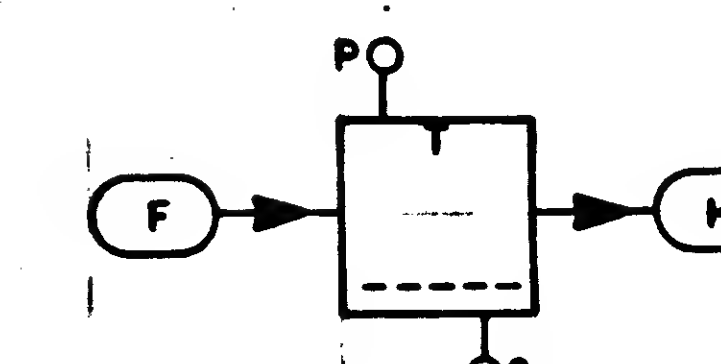
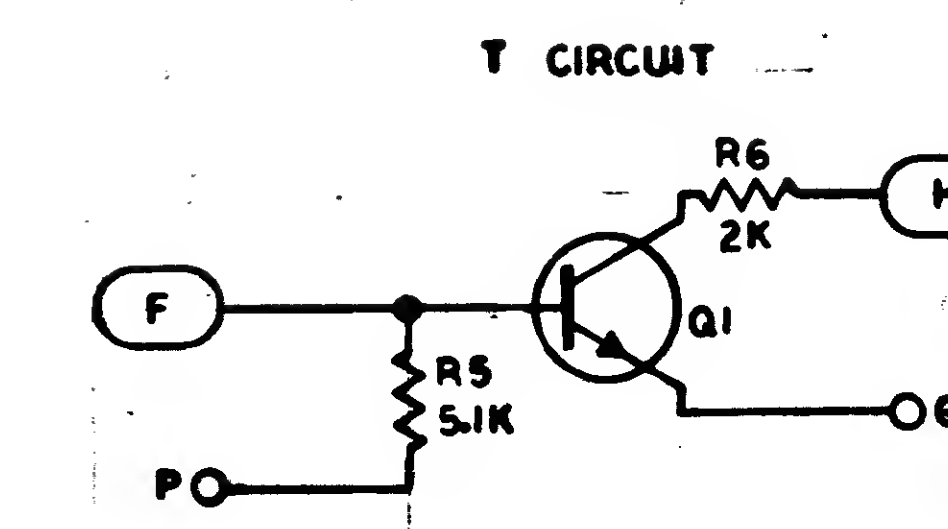
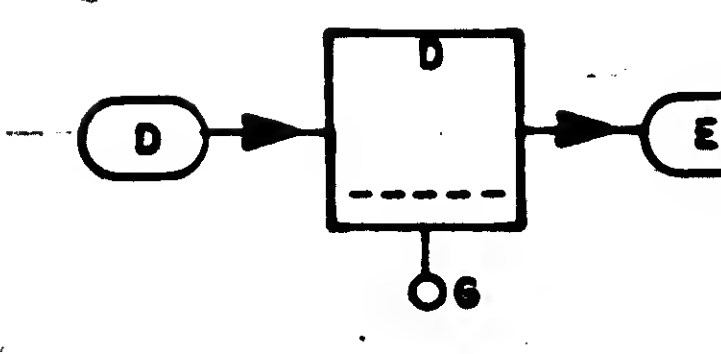
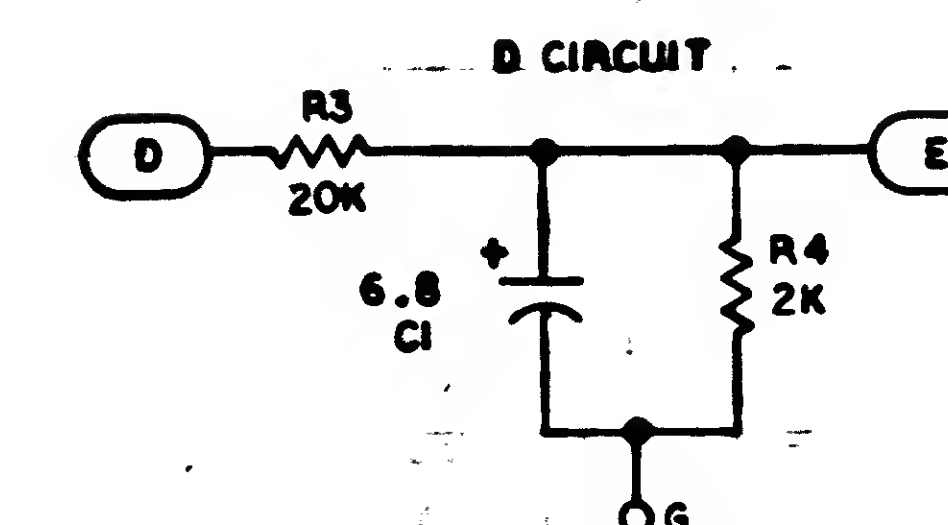
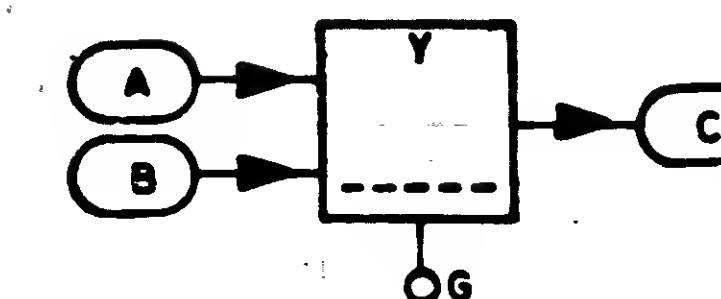
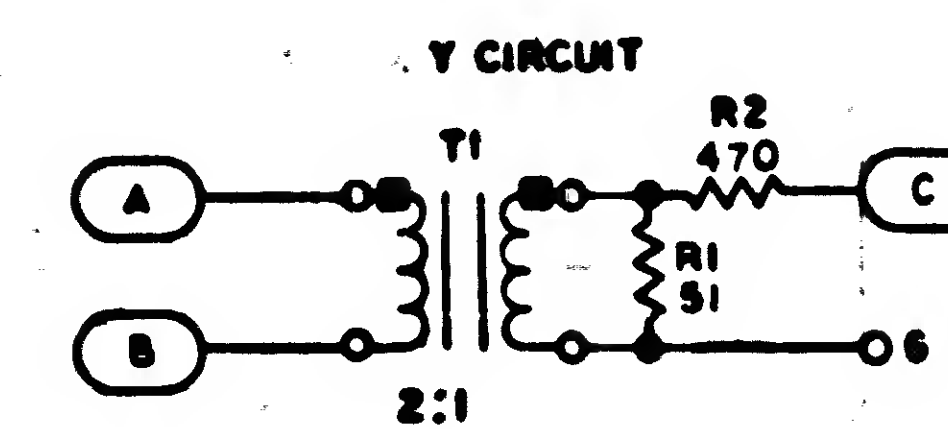
REF DWG: INTERFACE MODULE ASSY
A19 OR A39
DWG NO. 1003708

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REV NO.
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
LOW DIAGRAM & SCHEMATIC INTERFACE MODULE A19 OR A39			
NBA DRAWING NO. 1005701			
SHEET 1 OF 1			

MASTER

SCHEMATICS

SYMBOLS

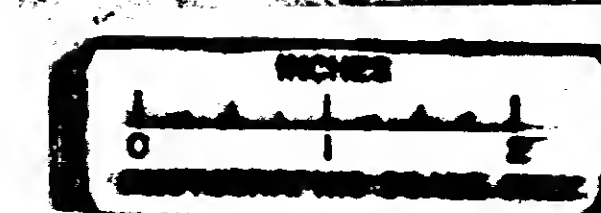


REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R1	1006750-1	RESISTOR	51	± 2%	1/4 W
R2	-24		470		
R3	-63		20K		
R4	-39		2K		
R5	-49		5.1K		
R6	-39		2K		
R7	-1				
R8	-39		2K		
R9	-39		2K		
C1	1006755-2	CAPACITOR	6.8	±10%	6VDC
C2	1006777-24	CAPACITOR	1000UUF	±10%	100 V
Q1	1006752	TRANSISTOR			
T1	1006762-2	TRANSFORMER			

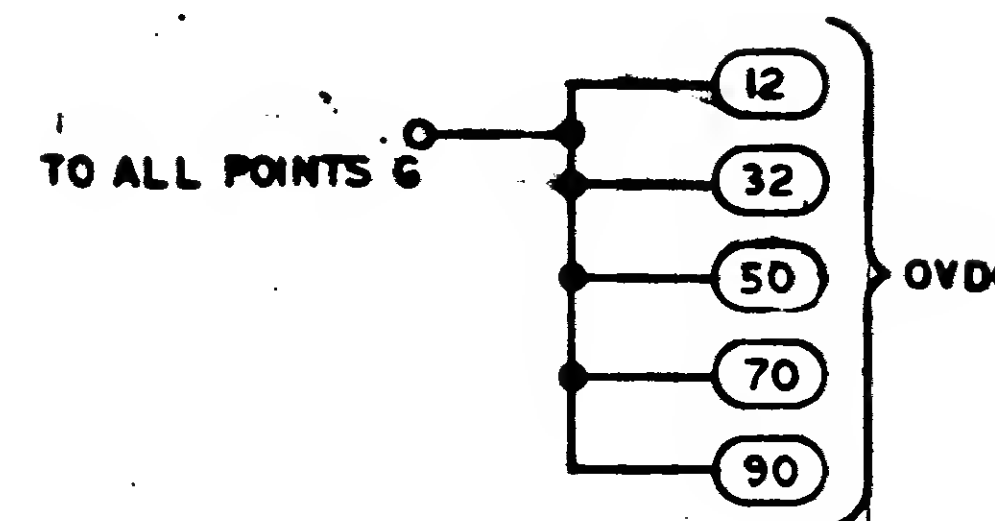
REF DWG: INTERFACE MODULE ASSY
A19 OR A39
DWG NO. 1003708

- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. CIRCUT NUMBERS FOR COMPUTER POSITION 19 ARE PREFIXED BY 71
 3. CIRCUT NUMBERS FOR COMPUTER POSITION 39 ARE PREFIXED BY 73
 4. UPPER SIGNAL NAME USED IN COMPUTER POSITION 19
 5. LOWER SIGNAL NAME USED IN COMPUTER POSITION 39
 6. UNLESS OTHERWISE SPECIFIED:
A. RESISTOR VALUES ARE EXPRESSED IN OHMS
B. CAPACITOR VALUES ARE EXPRESSED IN MICROFARADS

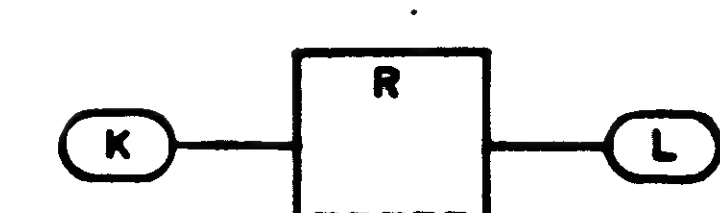
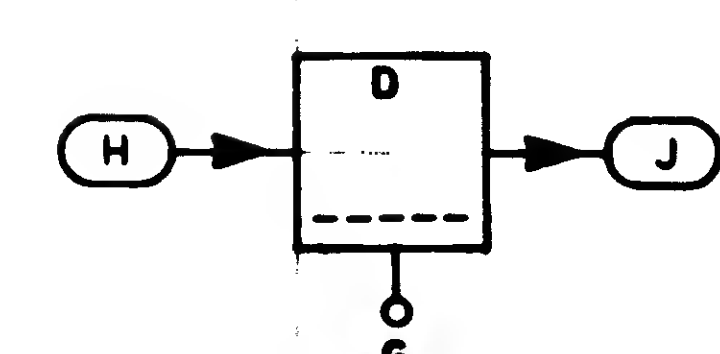
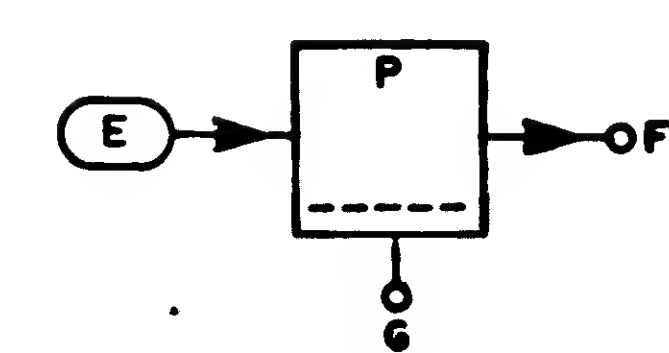
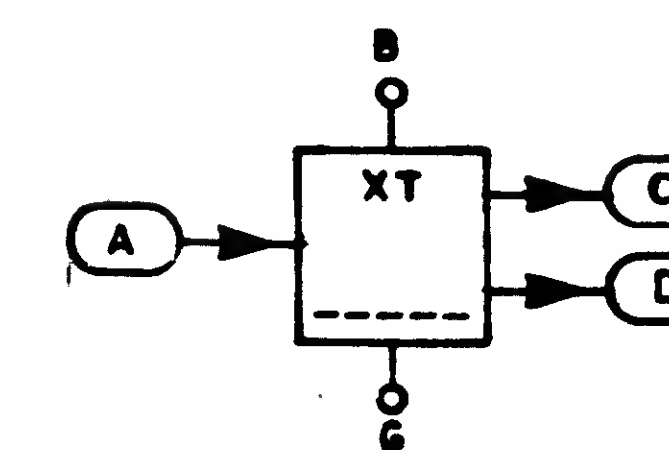
MASTER



QTY REQD	PART OR IDENTIFYING NO.	DESCRIPTION OR DESCRIPTION	FIG NO.
LIST OF MATERIALS			
MILITARY INSTRUMENTATION LAB CANNON, MISSOURI			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DRAWN BY: R. J. [Signature] CHECKED BY: [Signature] APPROVAL: [Signature]			
DO NOT SCALE THIS DRAWING			
MATERIAL			
HEAT TREATMENT			
FINISH			
NEXT ASSY			
USED ON			
APPLICATION			
NASA APPROVAL: [Signature] MIL APPROVAL: [Signature]			
CODE IDENT NO. E 1003701			
SCALE: 1" = 1"			
SHEET 1 OF 1			



SYMBOLS

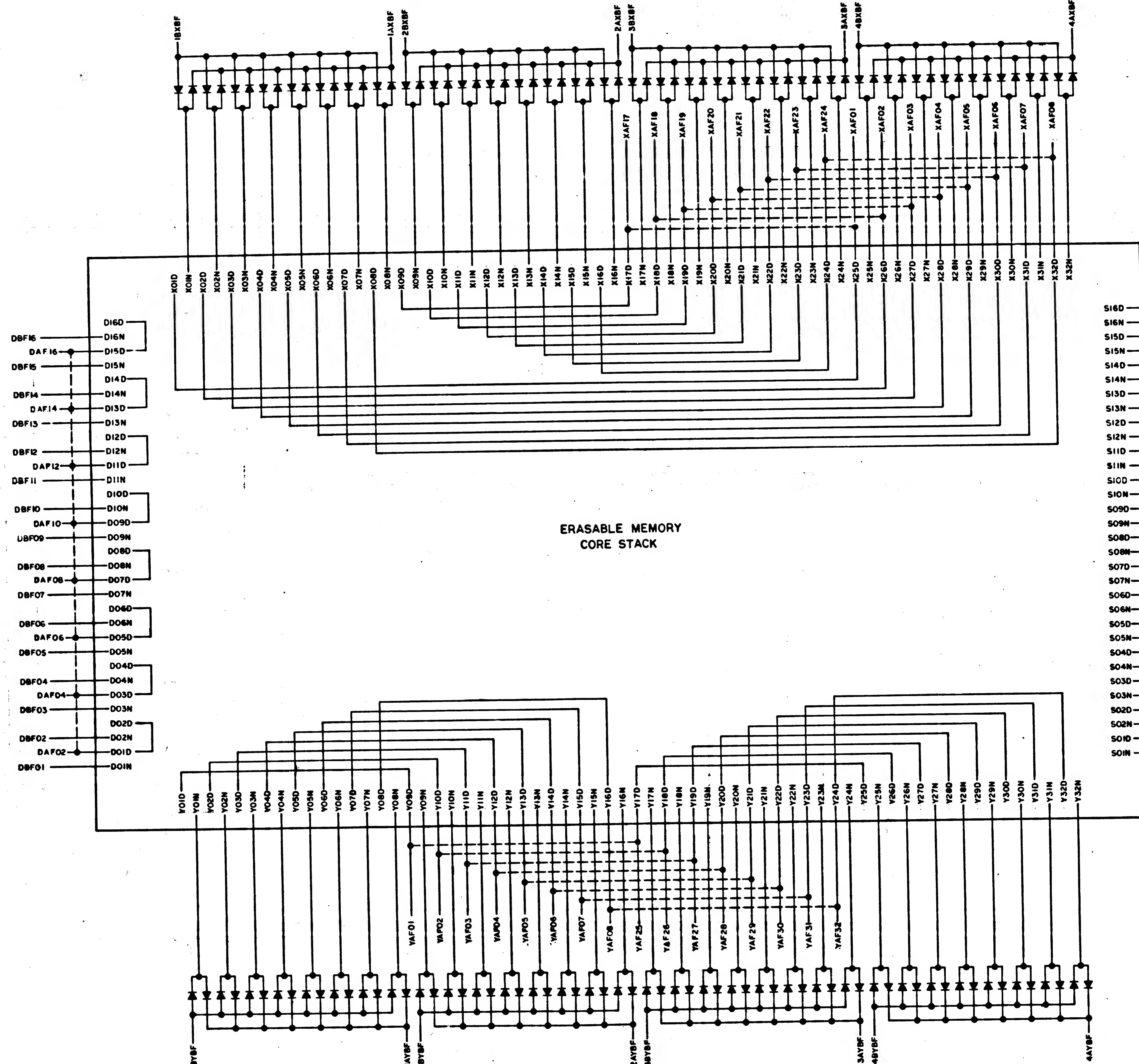


REF DWG: INTERFACE MODULE ASSY A20 OR A40 DWG NO.1003709

- MASTER

QTY REQD		PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS				
		M.T. INSTRUMENTATION LAB Columbus, Miss.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ±	DRAWN BY <i>J. J. Jones</i> DATE <i>10/10/68</i> CHECKED BY <i>E. E. Jones</i> DATE <i>10/10/68</i> APPROVAL <i>Don. J. Jones</i> DATE <i>10/10/68</i> APPROVAL <i>John H. Bell</i> DATE <i>10/10/68</i>	FLOW DIAGRAM & SCHEMATIC INTERFACE MODULE A20 OR A40	
DO NOT SCALE THIS DRAWING MATERIAL _____		NASA APPROVAL <i>John H. Bell</i> DATE <i>10/10/68</i>	CODE IDENT. NO. <u> </u> SIZE <u> </u>	NASA DRAWING NO. 1005702
NEXT ASSY _____ USED ON _____	HEAT TREATMENT _____ FINAL FINISH _____	BETA APPROVAL <i>E. E. Jones</i> DATE <i>10/10/68</i>	SCALE _____ WT _____	SHEET # ____ OF ____
APPLICATION _____				

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL D 70327.
2. DASHED LINES INDICATE WIRE WRAP CONNECTIONS.

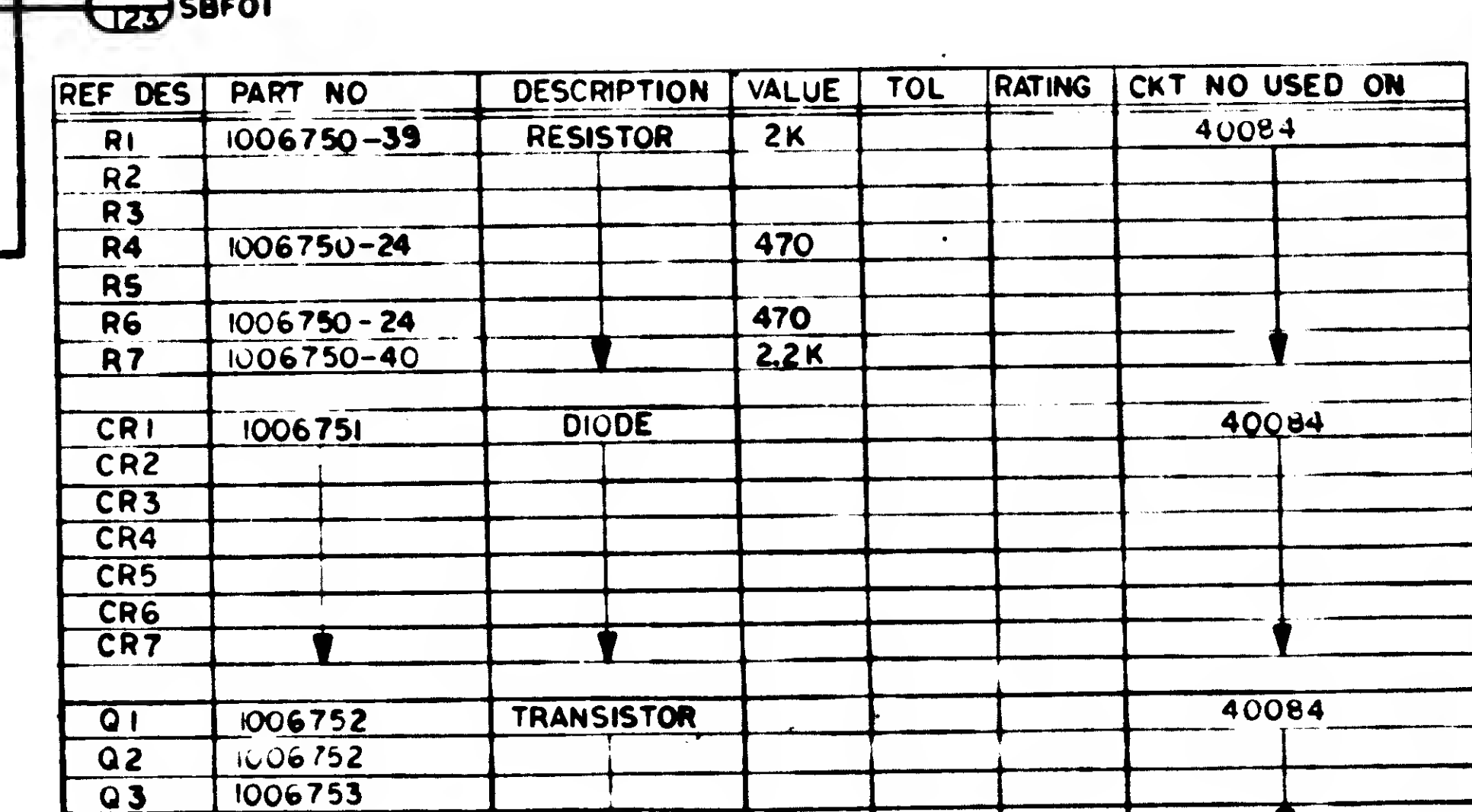


FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 00309 DATE 30/1/63

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL D 70327.
2. DASHED LINES INDICATE WIRE WRAP CONNECTIONS.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FINO NO.
LIST OF MATERIALS			
INSTRUMENTATION LAB			
MANNED SPACECRAFT CENTER			
HOUSTON, TEXAS			
SCHEMATIC, ERASABLE MEMORY STICK			
CODE IDENT NO. E			
NASA DRAWING NO. 1006061			
SHEET 1 OF 1			

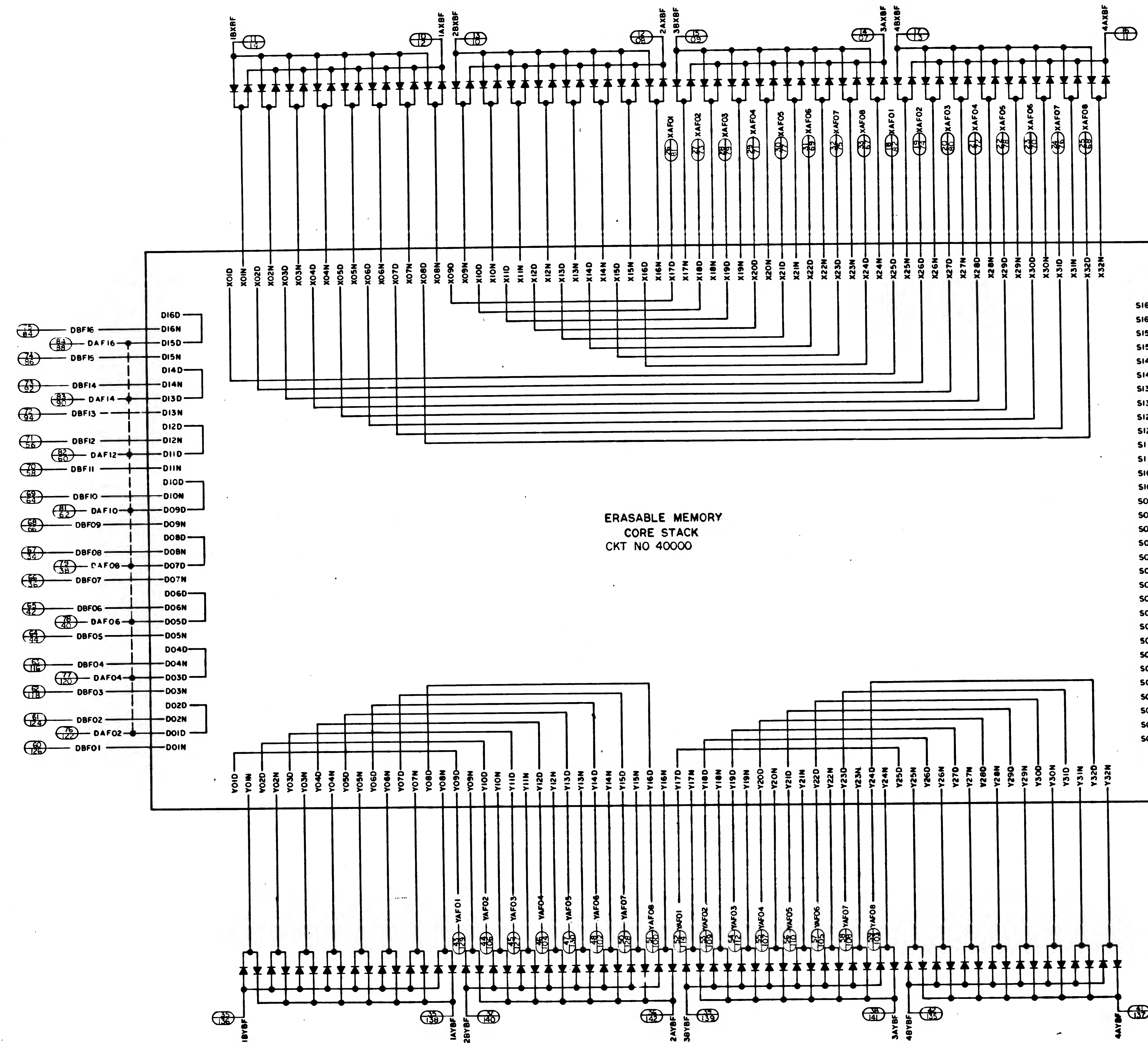
1006061



<div style="text-align: center;"> <div>44</div> <div>MASTER</div> </div>		QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
		LIST OF MATERIALS							
		M I T INSTRUMENTATION LAB Cambridge, MA <div style="text-align: right;"> DATE <u>12/1/71</u> CHECKED <u>W. J. [Signature]</u> APPROVAL <u>[Signature]</u> APPROVAL <u>EC 12/1/71</u> </div>				MANNED SPACECRAFT CENTER HOUSTON, TEXAS <div style="text-align: center;"> <h1>SCHEMATIC,</h1> <h1>ERASABLE MEMORY STICK</h1> </div>			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES OR FRACTIONS # DECIMALS # ANGLES # DO NOT SCALE THIS DRAWING MATERIAL #		NASA APPROVAL <u>[Signature]</u> MIT APPROVAL <u>[Signature]</u>				CODE IDENT NO. # E NASA DRAWING NO. <div style="text-align: center;"> <h2>1006061</h2> </div>			
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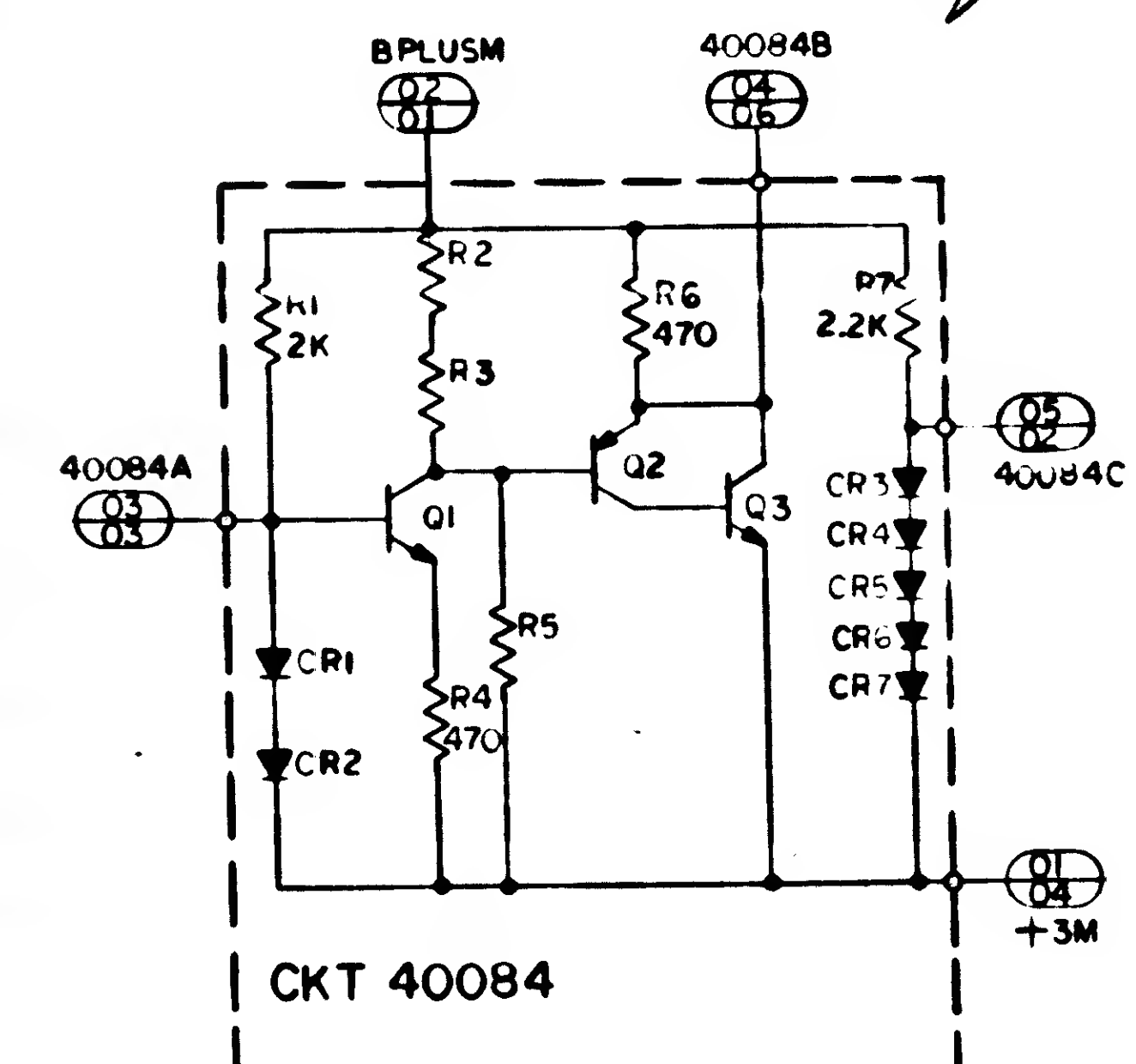
NOTES: 1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL D 70327.

REV	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDR 00674	3/7/68	W
B	REVISED PER TDR 01169	5/4/68	C



- S16D SAF16
- S16N SBF16
- S15D SAF15
- S15N SBF15
- S14D SAF14
- S14N SBF14
- S13D SAF13
- S13N SBF13
- S12D SAF12
- S12N SBF12
- S11D SAF11
- S11N SBF11
- S10D SAF10
- S10N SBF10
- S09D SAF09
- S09N SBF09
- S08D SAF08
- S08N SBF08
- S07D SAF07
- S07N SBF07
- S06D SAF06
- S06N SBF06
- S05D SAF05
- S05N SBF05
- S04D SAF04
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- S03D SAF03
- S03N SBF03
- S02D SAF02
- S02N SBF02
- S01D SAF01
- S01N SBF01

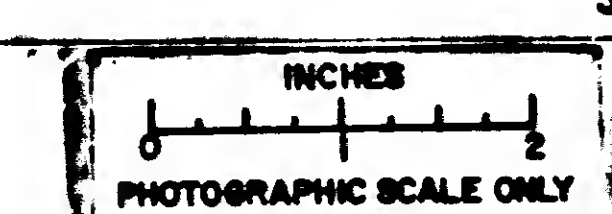
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CLASS B RELEASE TDR No. 00309 DATE 30 Jan 68



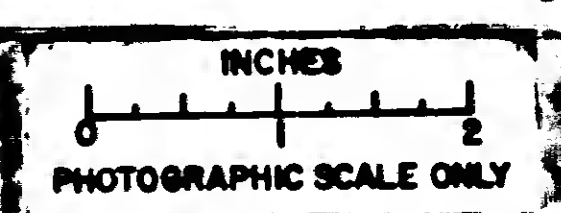
REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING	CKT NO USED ON
R1	1006750-39	RESISTOR	2K			40084
R2						
R3						
R4	100675L-24		470			
R5						
R6	1006750-24		470			
R7	1006750-40		2.2K			
CR1	1006751	DIODE				40084
CR2						
CR3						
CR4						
CR5						
CR6						
CR7						
Q1	1006752	TRANSISTOR				40084
Q2	1006753					
Q3	1006752					

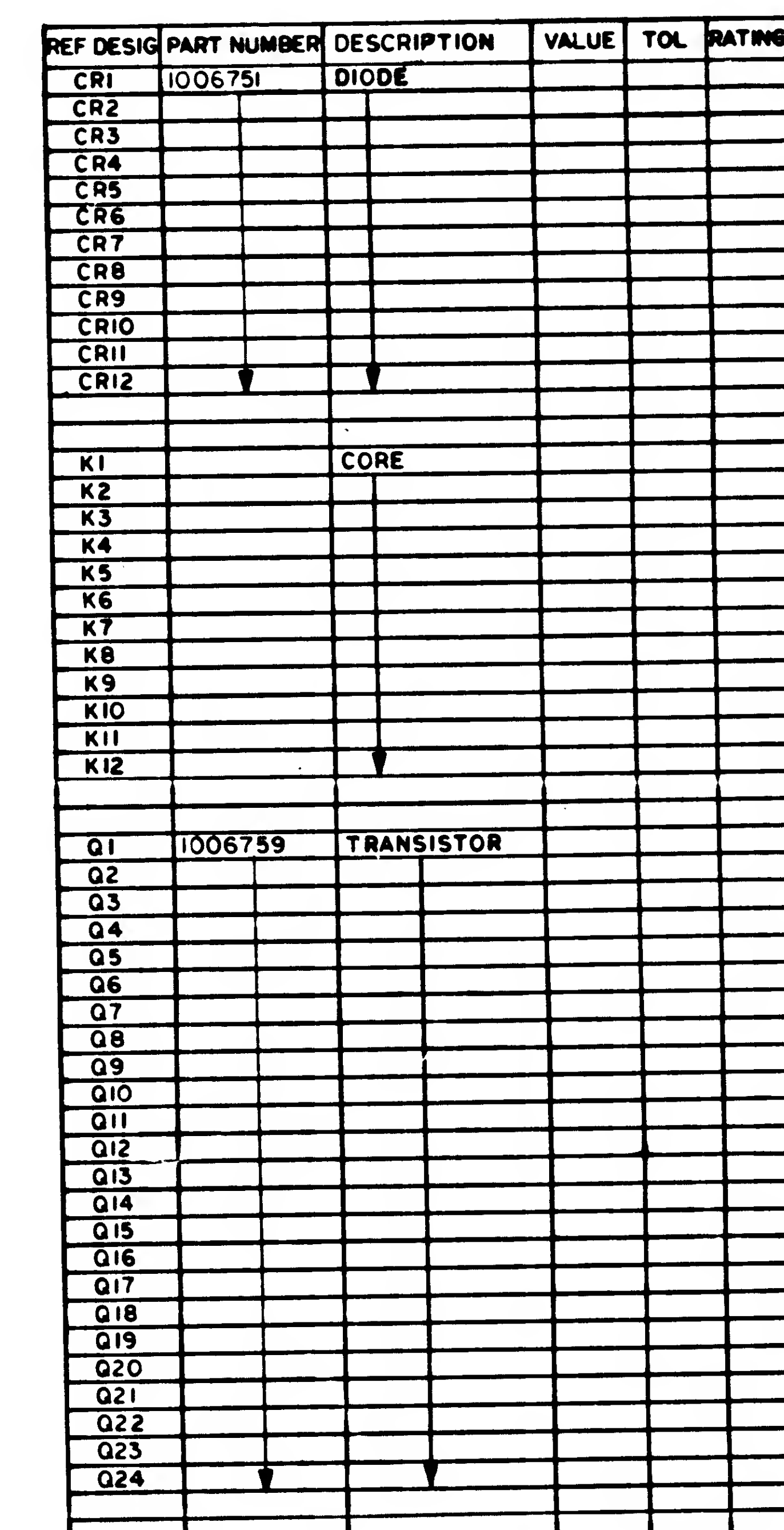
NOTES: 1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL D 70327.

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FINO
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON TEXAS			
SCHEMATIC, ERASABLE MEMORY STICK			
NESA DRAWING NO 1006061		SHEET 1 OF 1	



NOTICE - WHEN GOVERNMENT ISSUES SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFENSE CONTRACT, THE GOVERNMENT AND THE UNITED STATES GOVERNMENT ARE NOT THEREBY INCURRING RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORWARDED THE SPECIFICATIONS OR DATA MAY BE SOUGHT TO BE DEEMED BY IMPLICATION OR OTHERWISE AS AN INDICATION OF LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION OR COMPANY TO USE ANY RIGHTS OR INFORMATION RELATING TO MANUFACTURE OR USE OR SELL ANY PATENTED INVENTION THAT MAY BE ANY THAT BE RELATED THERE TO

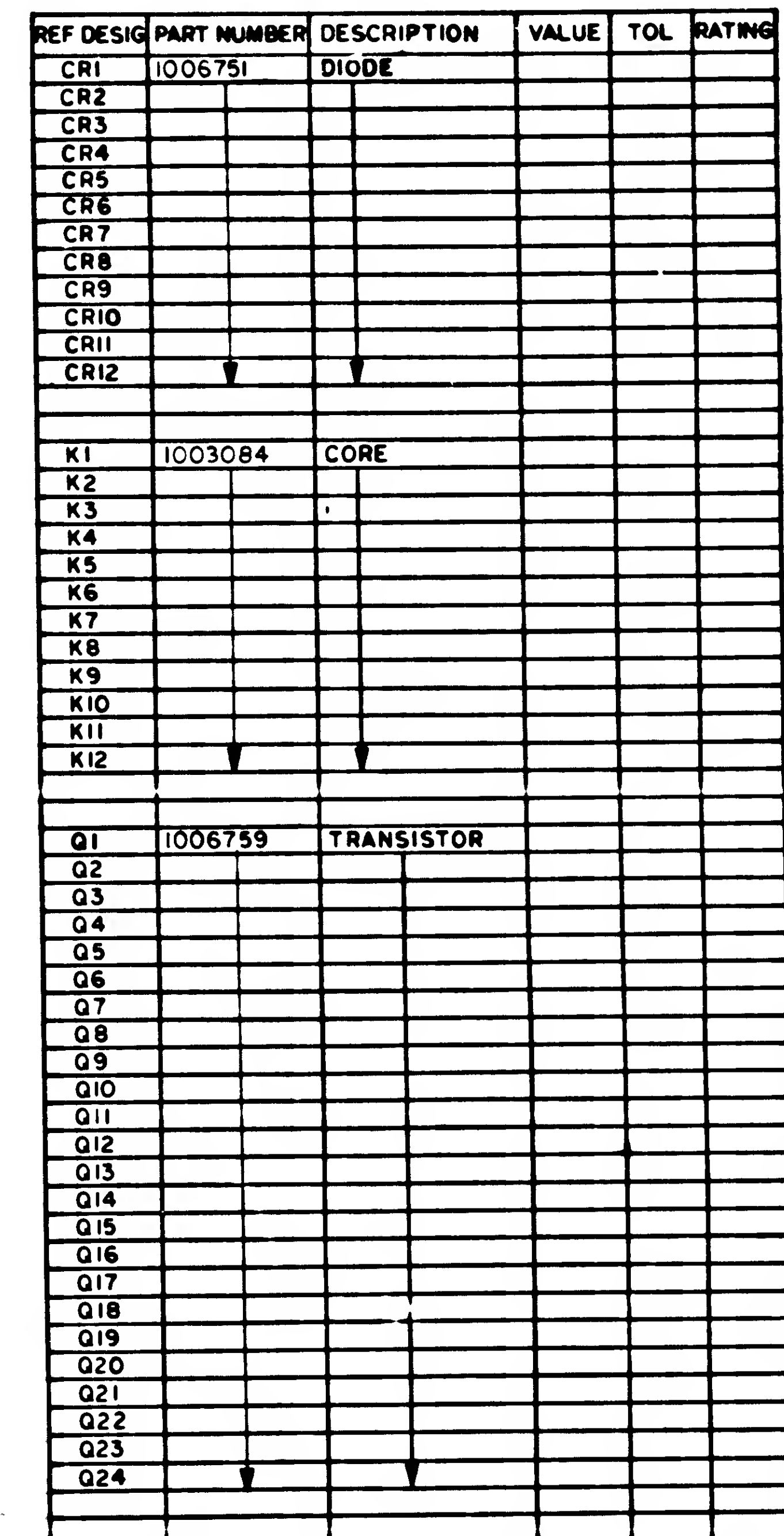




CLASS B RELEASE TOR No. 00514 DATE 6/11/63

- NOTES:**
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
 2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
 3. NUMBERS SHOWN ADJACENT TO COWLS INDICATE NUMBER OF TURNS.

[illegible]



CLASS B RELEASE TOR No. 00514 DATE 6/18/63

NOTES:

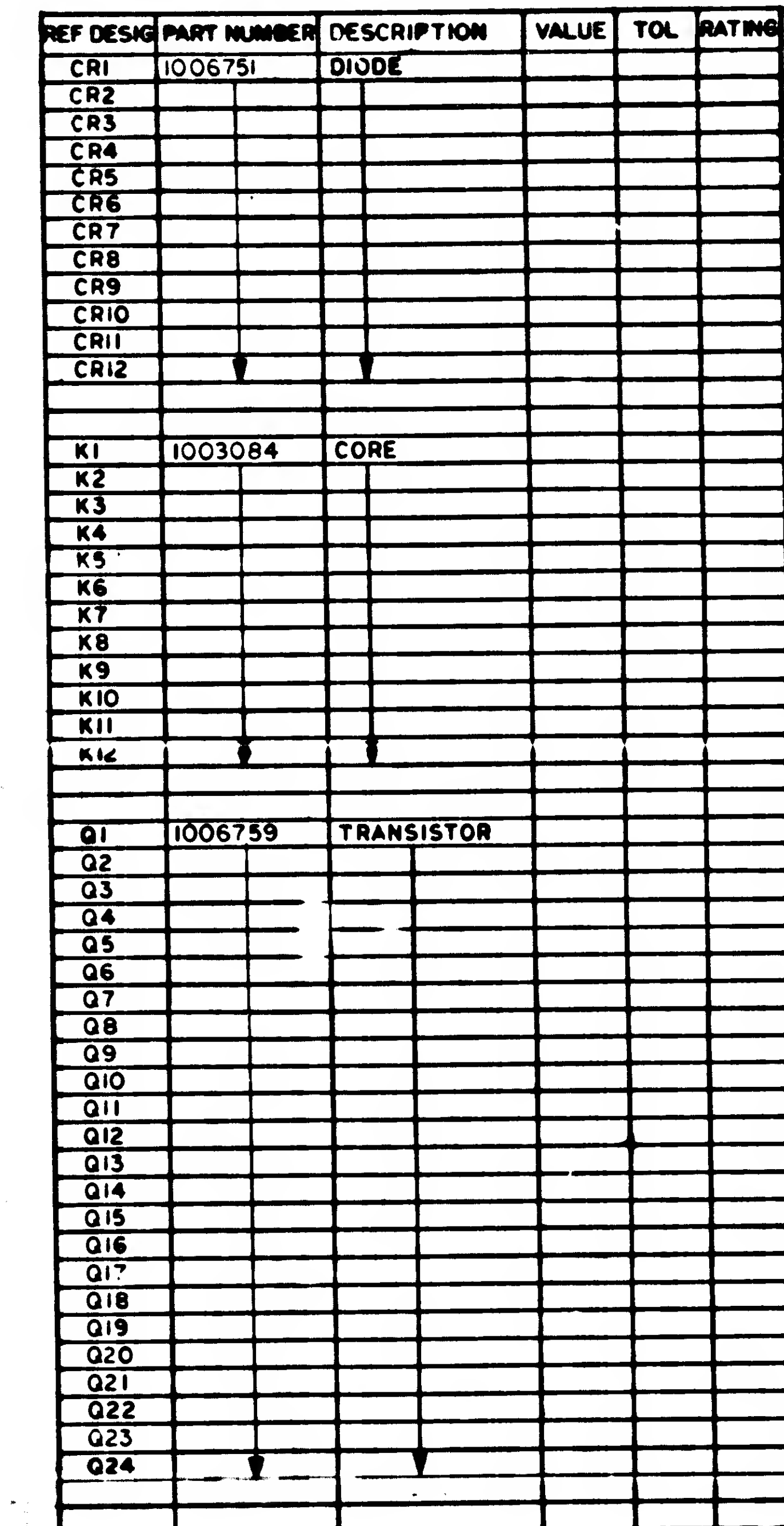
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
3. NUMBERS SHOWN ADJACENT TO COILS INDICATE NUMBER OF TURNS.

POSTER

[illegible]

MASTER

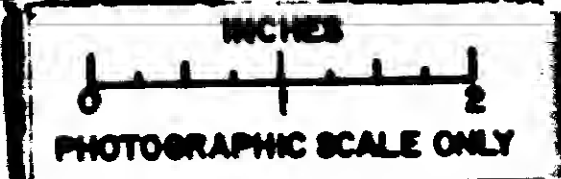
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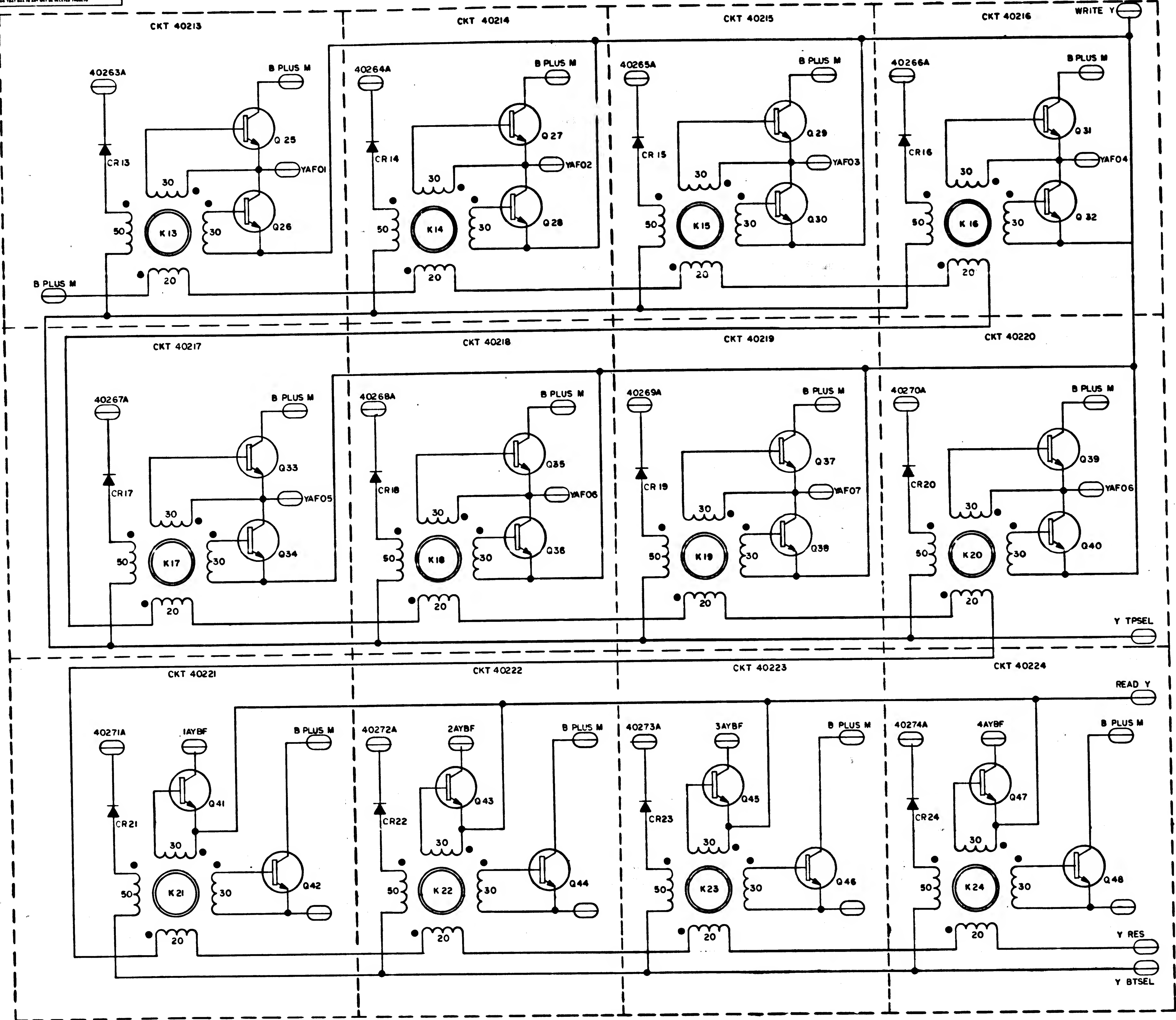
CLASS B RELEASE TDR No. 00514 DATE 6/1/63

- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-13327.
 2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
 3. NUMBERS SHOWN ADJACENT TO COILS INDICATE NUMBER OF TURNS.

MASTER		QTY		PART OR IDENTIFYING NO		NOMENCLATURE OR DESCRIPTION		FINO NO	
						LIST OF MATERIALS			
		B-17		INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER			
				Cambridge Mass		HOUSTON TEXAS			
		REV NO		DATE					
				DRAWN BY <i>John G. Kelly</i>		DATE <i>3-2-62</i>			
				CHECKED <i>J. H. H.</i>		DATE <i>3-2-62</i>			
				APPROVAL <i>J. H. H.</i>		DATE <i>3-2-62</i>			
				APPROVAL <i>C. M. H.</i>		DATE <i>3-2-62</i>			
								<p align="center">SCHEMATIC. CURRENT SWITCHING STICK (FOR EASABLE MEMORY)</p>	
				MASA APPROVAL <i>[Signature]</i>		CODE IDENT NO		SIZE	
								MASA DRAWING NO	
								1006074	
				NET APPROVAL <i>[Signature]</i>		SCALE <i>1/2"</i>		WT	
								SHEET 1 OF 2	



NOTES: 1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. 2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH. 3. NUMBERS SHOWN ADJACENT TO COILS INDICATE NUMBER OF TURNS.



REF DESIGN	PART NUMBER	DESCRIPTION	VALUE	TOL	RATING
CR 13	1006751	DIODE			
CR 14					
CR 15					
CR 16					
CR 17					
CR 18					
CR 19					
CR 20					
CR 21					
CR 22					
CR 23					
CR 24					
K 13		CORE			
K 14					
K 15					
K 16					
K 17					
K 18					
K 19					
K 20					
K 21					
K 22					
K 23					
K 24					
Q 25	1006759	TRANSISTOR			
Q 26					
Q 27					
Q 28					
Q 29					
Q 30					
Q 31					
Q 32					
Q 33					
Q 34					
Q 35					
Q 36					
Q 37					
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Q 39					
Q 40					
Q 41					
Q 42					
Q 43					
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Q 45					
Q 46					
Q 47					
Q 48					

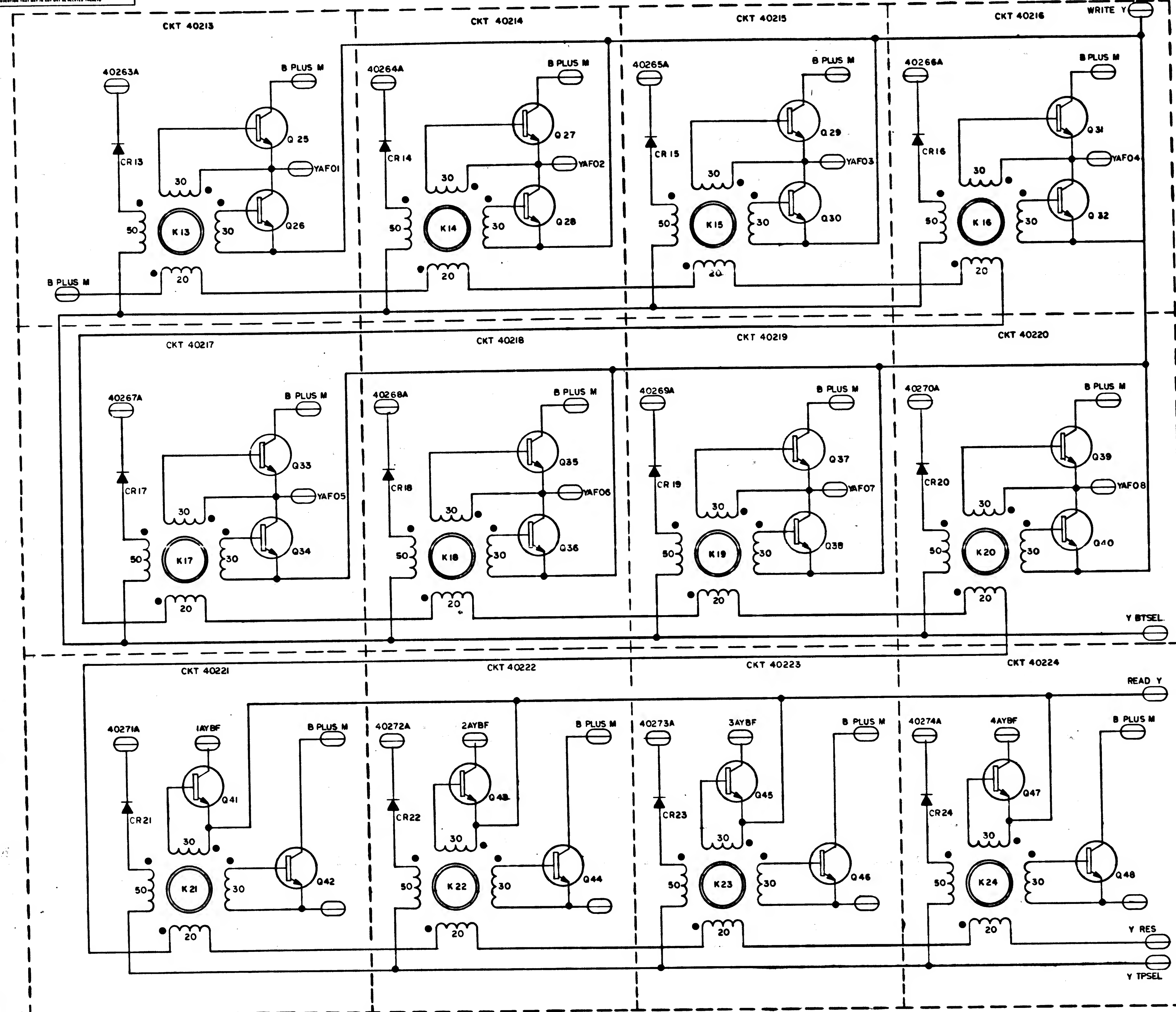
FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 00514 DATE 6/1/63

- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
 2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
 3. NUMBERS SHOWN ADJACENT TO COILS INDICATE NUMBER OF TURNS.

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG NO
LIST OF MATERIALS			
INSTRUMENTATION LAB Cambridge Mass		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN: <i>[Signature]</i> DATE: 1/1/63		SCHEMATIC CURRENT SWITCHING STICK (FOR ERASABLE MEMORY)	
CHECKED: <i>[Signature]</i> DATE: 1/1/63		NASA DRAWING NO. 1006074	
APPROVAL: <i>[Signature]</i> DATE: 1/1/63		CODE IDENT NO. E	
NASA APPROVAL: <i>[Signature]</i>		SCALE: 1/1	
MIT APPROVAL: <i>[Signature]</i>		SHEET 2 OF 2	
NEXT ASSY	USED ON	APPLICATION	

1006074

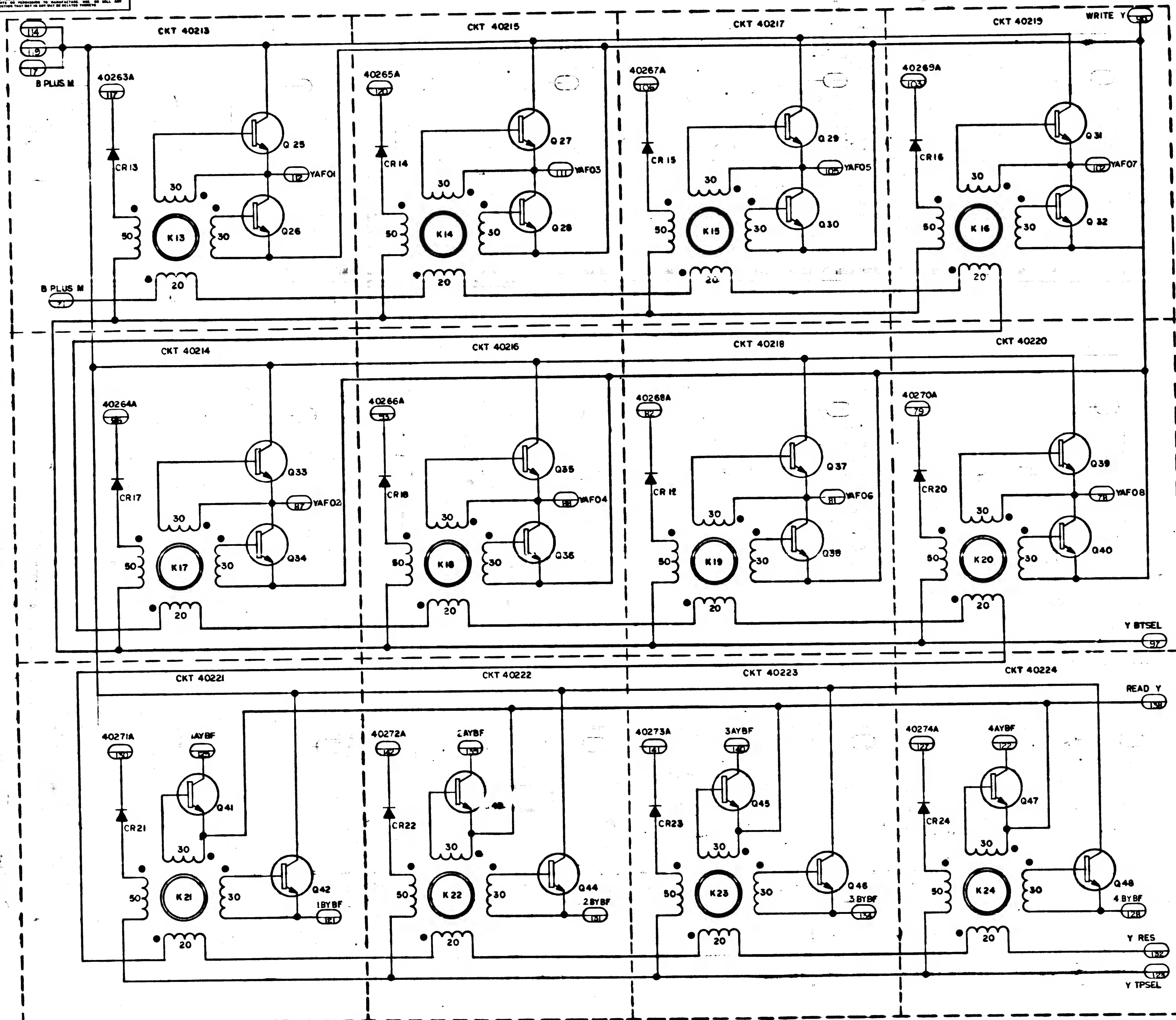


FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 00514 DATE 6/28/63

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
				LIST OF MATERIALS			
CITY INSTRUMENTATION LAB CHANDLER, TEXAS DATE: <u>11-1-62</u> CHECKED: <u>W. H. G. 11-1-62</u> APPROVAL: <u>W. H. G. 11-1-62</u>				MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC, CURRENT SWITCHING STICK (FOR ERASABLE MEMORY)			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm DO NOT SCALE THIS DRAWING MATERIAL <u>—</u>				NASA APPROVAL: <u>W. H. G. 11-1-62</u> CODE IDENT NO. <u>—</u> SIZE <u>E</u> NASA DRAWING NO. <u>1006074</u>			
HEAT TREATMENT <u>—</u> FINISH FRESH <u>—</u>				SCALE <u>—</u> WT <u>—</u> SHEET <u>2</u> OF <u>3</u>			
NEXT ASSY USED ON ADDITIONAL							

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH
3. NUMBERS SHOWN ADJACENT TO COILS INDICATE NUMBER OF TURNS



REF DESIG	PART NUMBER	DESCRIPTION	VALUE	TOL	RATING
CR 13	1006751	DIODE			
CR 14					
CR 15					
CR 16					
CR 17					
CR 18					
CR 19					
CR 20					
CR 21					
CR 22					
CR 23					
CR 24					
K 13	1003084	CORE			
K 14					
K 15					
K 16					
K 17					
K 18					
K 19					
K 20					
K 21					
K 22					
K 23					
K 24					
Q 25	1006759	TRANSISTOR			
Q 26					
Q 27					
Q 28					
Q 29					
Q 30					
Q 31					
Q 32					
Q 33					
Q 34					
Q 35					
Q 36					
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Q 48					

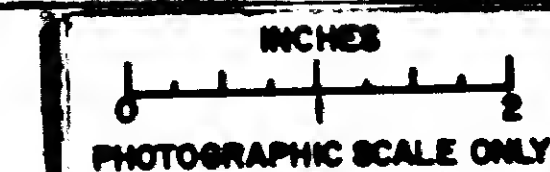
FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 00514 DATE 6/1/63

- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH
 3. NUMBERS SHOWN ADJACENT TO COILS INDICATE NUMBER OF TURNS

MASTER

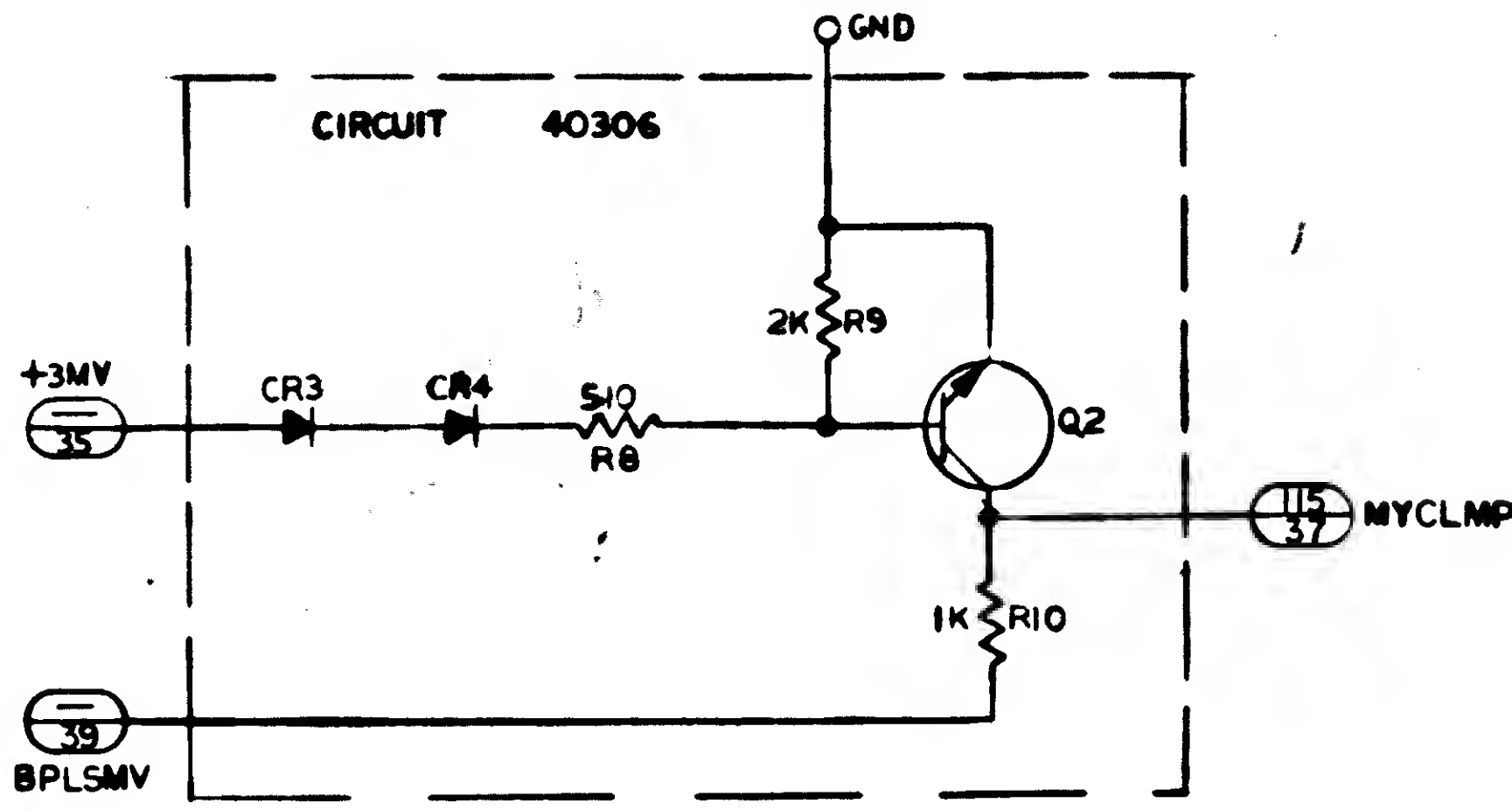
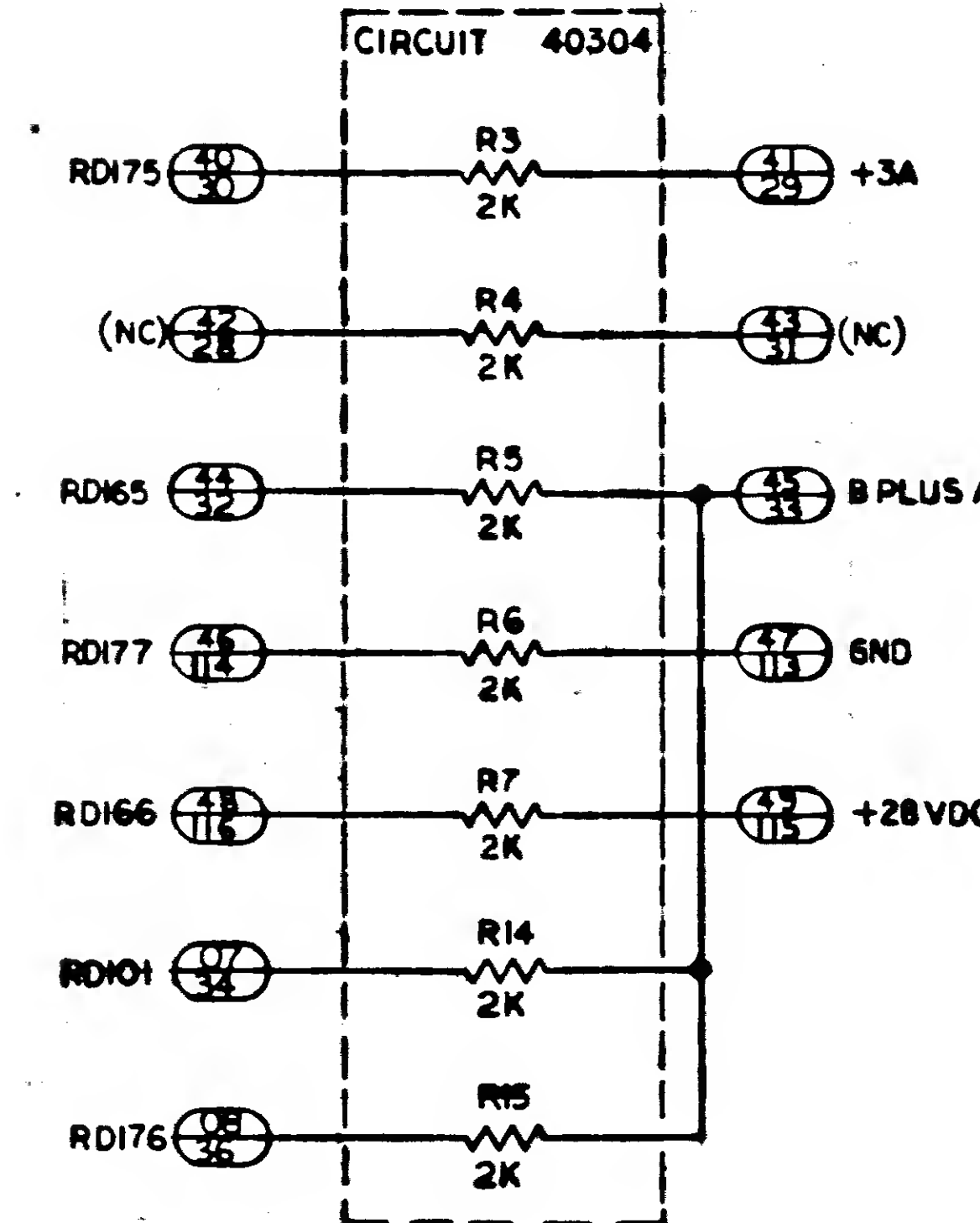
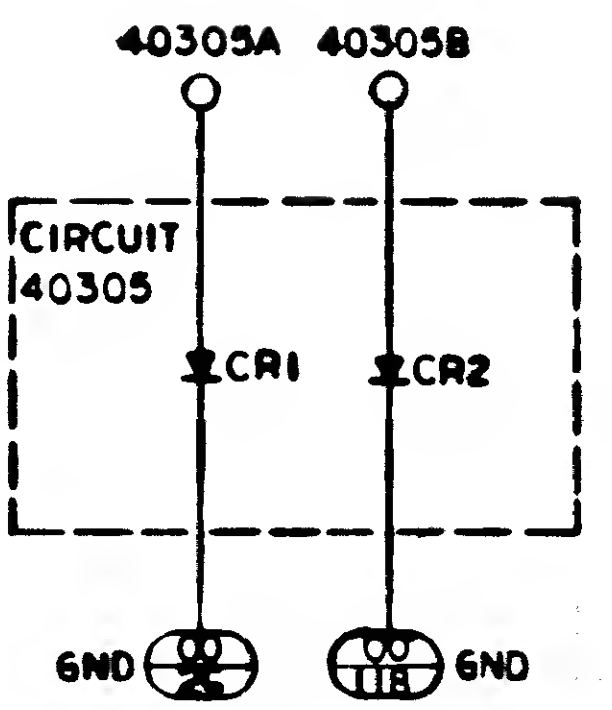
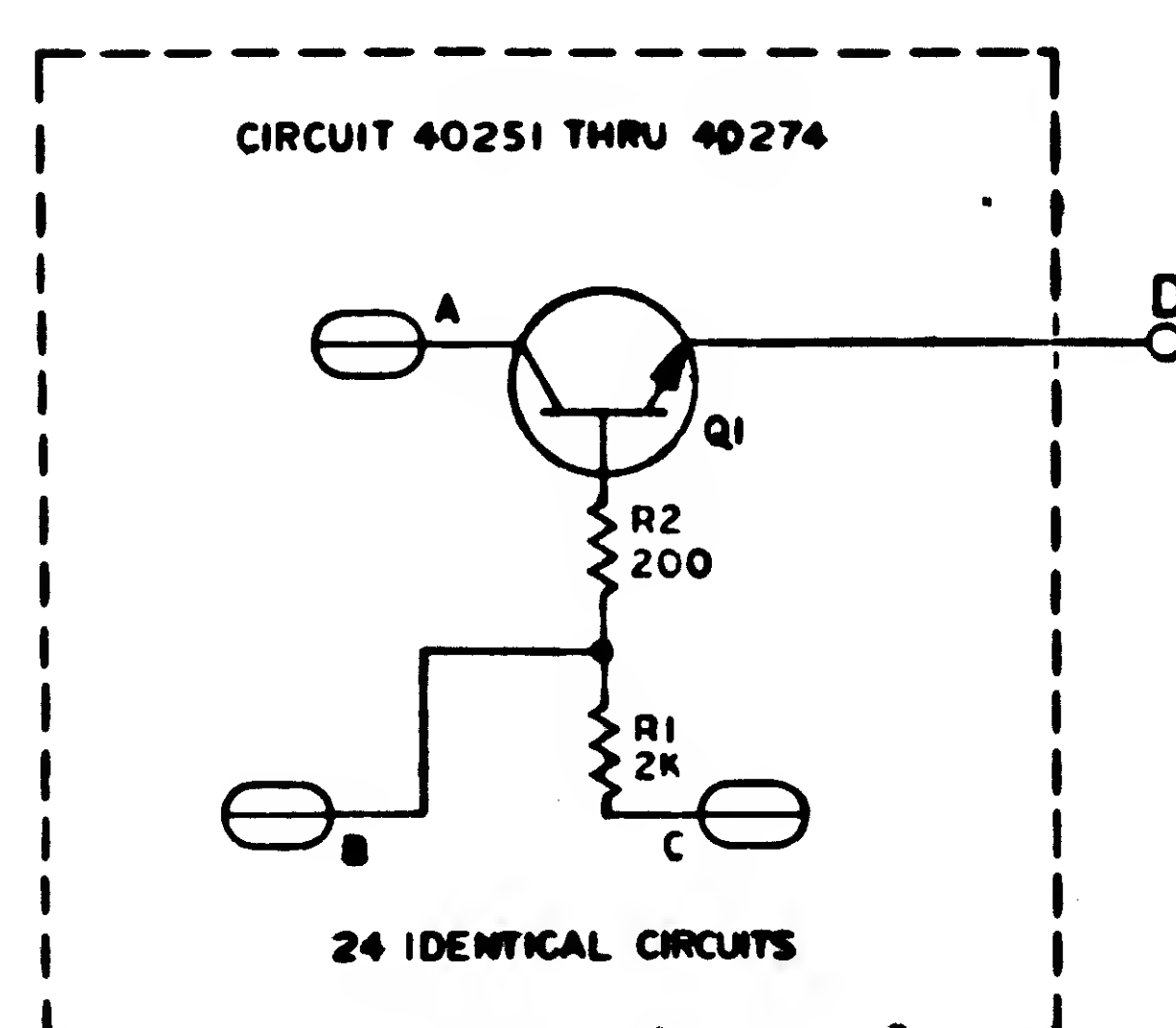
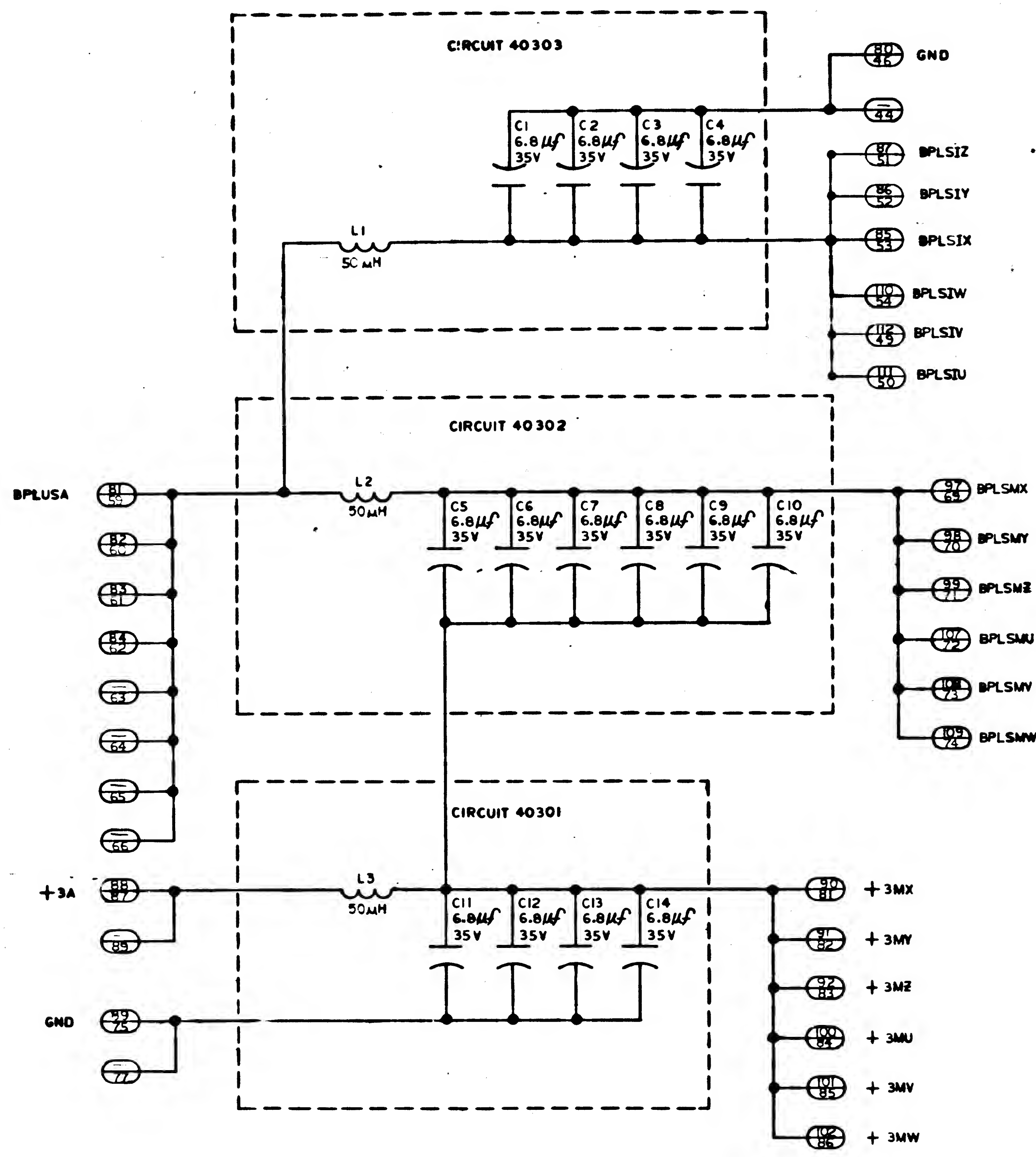
MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIN NO
LIST OF MATERIALS			
INSTRUMENTATION LAB HOUSTON, TEXAS DRAWN: [Signature] DATE: 5/1/63 CHECKED: [Signature] DATE: 5/1/63 APPROVAL: [Signature] DATE: 5/1/63		MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC CURRENT SWITCHING STICK (FOR ERASABLE MEMORY) NASA DRAWING NO. 1006074 SCALE: 1" = 1"	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS OR DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL: [Blank] HEAT TREATMENT: [Blank] NEXT ASSY: [Blank] USED ON: [Blank] FINAL FINISH: [Blank]		NASA APPROVAL: [Signature] DATE: 6/1/63 MTT APPROVAL: [Signature] DATE: 6/1/63	



1006074 1A

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327



REF DES.	PART NO.	DESCRIPTION	VALUE	TOL.	RATING
R1	1006750-39	RESISTOR	2K		1/4W
C1	1006755-79	CAPACITOR	6.8M		35V
C2					
C3					
C4					
C5					
C6					
C7					
C8					
C9					
C10					
C11					
C12					
C13					
C14	1006755-79	CAPACITOR	6.8M		35V
L1	1006798	INDUCTOR	50MH		
L2	1006798	INDUCTOR	50MH		
L3	1006798	INDUCTOR	50MH		
Q1	1006751	TRANSISTOR			
Q2					
Q3					
R2	1006750-15	RESISTOR	200		1/4W
R3	-39		2K		
R4	-39				
R5	-39				
R6	-39				
R7	-39				
R8	-25		510		
R9	-39		2K		
R10	-32		1K		
R11	-36		1K		
R12	-36		510		
R13	-35		2K		
R14	-39		2K		
R15	-39		2K		

REF DES.	PART NO.	DESCRIPTION	VALUE	TOL.	RATING
CR1	1006751	DIODE			
CR2					
CR3	1006751				
CR4					
CR5					
CR6					
CR7	1006838				

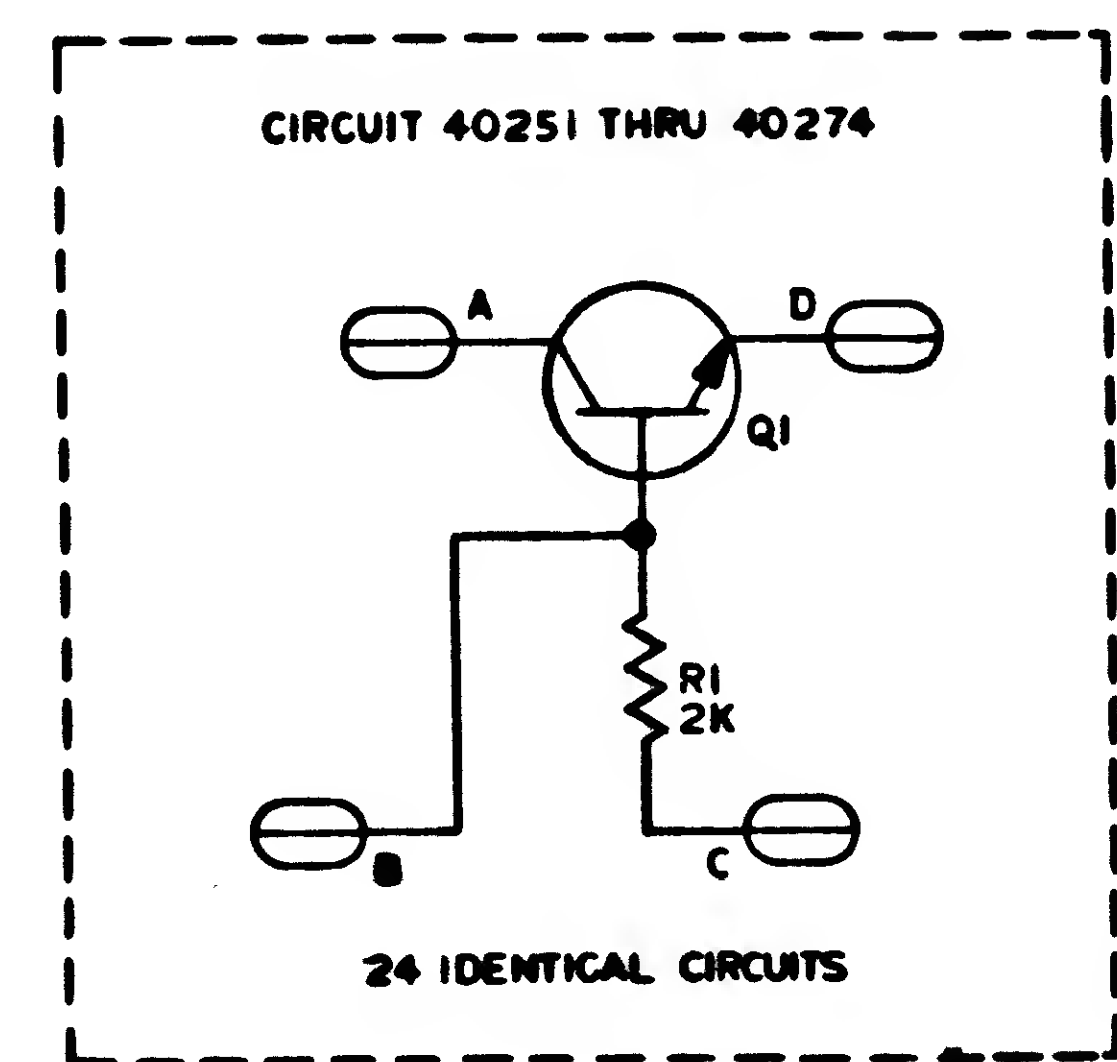
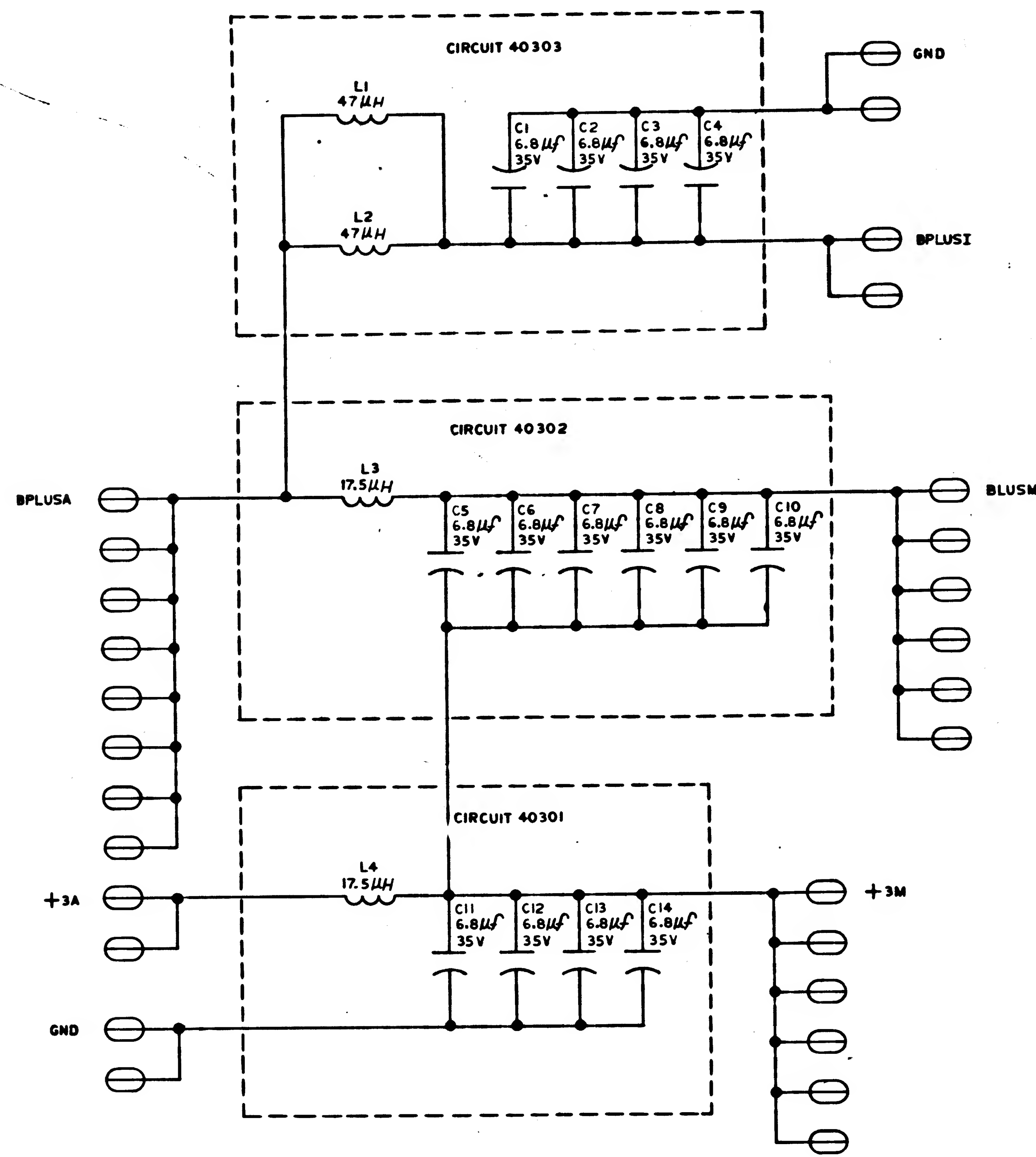
ASSEMBLY REFERENCE PREFIX	CIRCUIT NO.	SIGNAL NAME	AGC 5	AGC 4	SIGNAL NAME	AGC 5	AGC 4	SIGNAL NAME	AGC 5	AGC 4	SIGNAL NAME	AGC 5	AGC 4
12	40251	40251A	23	10	XB0E	24	28	BPLSMZ	27	INT	40305A	INT	INT
8	40252	40252A	22	11	XB1E	25	29						
11	40253	40253A	22	12	XB2E	25	30						
7	40254	40254A	14	13	XB3E	17	31						
9	40255	40255A	18	14	XB4E	21	32						
5	40256	40256A	10	15	XB5E	11	33						
10	40257	40257A	19	16	XB6E	20	34						
6	40258	40258A	09	17	XB7E	12	35						
3	40259	40259A	06	18	XB8E	07	36						
1	40260	40260A	02	19	XB9E	03	37						
2	40261	40261A	01	20	XB0E	04	38						
4	40262	40262A	05	21	XB1E	08	39						
20	40263	40263A	133	50	YB0E	132	68						
15	40264	40264A	126	51	YB1E	125	69						
19	40265	40265A	134	52	YB2E	121	70						
16	40266	40266A	125	53	YB3E	124	71						
17	40267	40267A	130	54	YB4E	127	72						
13	40268	40268A	122	55	YB5E	115	73						
18	40269	40269A	129	56	YB6E	128	74						
14	40270	40270A	121	57	YB7E	120	75						
21	40271	40271A	138	58	YB8E	135	76						
23	40272	40272A	142	59	YB9E	139	77						
24	40273	40273A	141	60	YB0E	140	78						
22	40274	40274A	137	61	YB1E	136	79						

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

REF. DRIVER SERVICE ASSY 1003165

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
LIST OF MATERIALS							
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
TOLERANCES ON FRACTIONS DECIMALS ANGLES				SCHEMATIC DRIVER SERVICE MODULE 87			
DO NOT SCALE THIS DRAWING				CODE IDENT NO. E			
MATERIAL				NASA DRAWING NO. 1006082			
HEAT TREATMENT				SCALE			
FINISH				SHEET 1 OF 1			
NEXT ASSY USED ON APPLICATION				MIL APPROVAL			

NOTES: 1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL D-70327



REF. DES.	PART NO.	DESCRIPTION	VALUE	TOL.	RATING
R1	1006750-39	RESISTOR	2K		1/4W
C1	1006755-79	CAPACITOR	6.8μF		35V
C2					
C3					
C4					
C5					
C6					
C7					
C8					
C9					
C10					
C11					
C12					
C13					
C14	1006755-79	CAPACITOR	6.8μF		35V
L1	1006756-9	INDUCTORS	47μH		
L2	1006812-9		47μH		
L3	1006812	INDUCTORS	17.5μH		
L4	1006812	INDUCTORS	17.5μH		
Q1	1006752	TRANSISTOR			

FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 00671 DATE 3-27-63

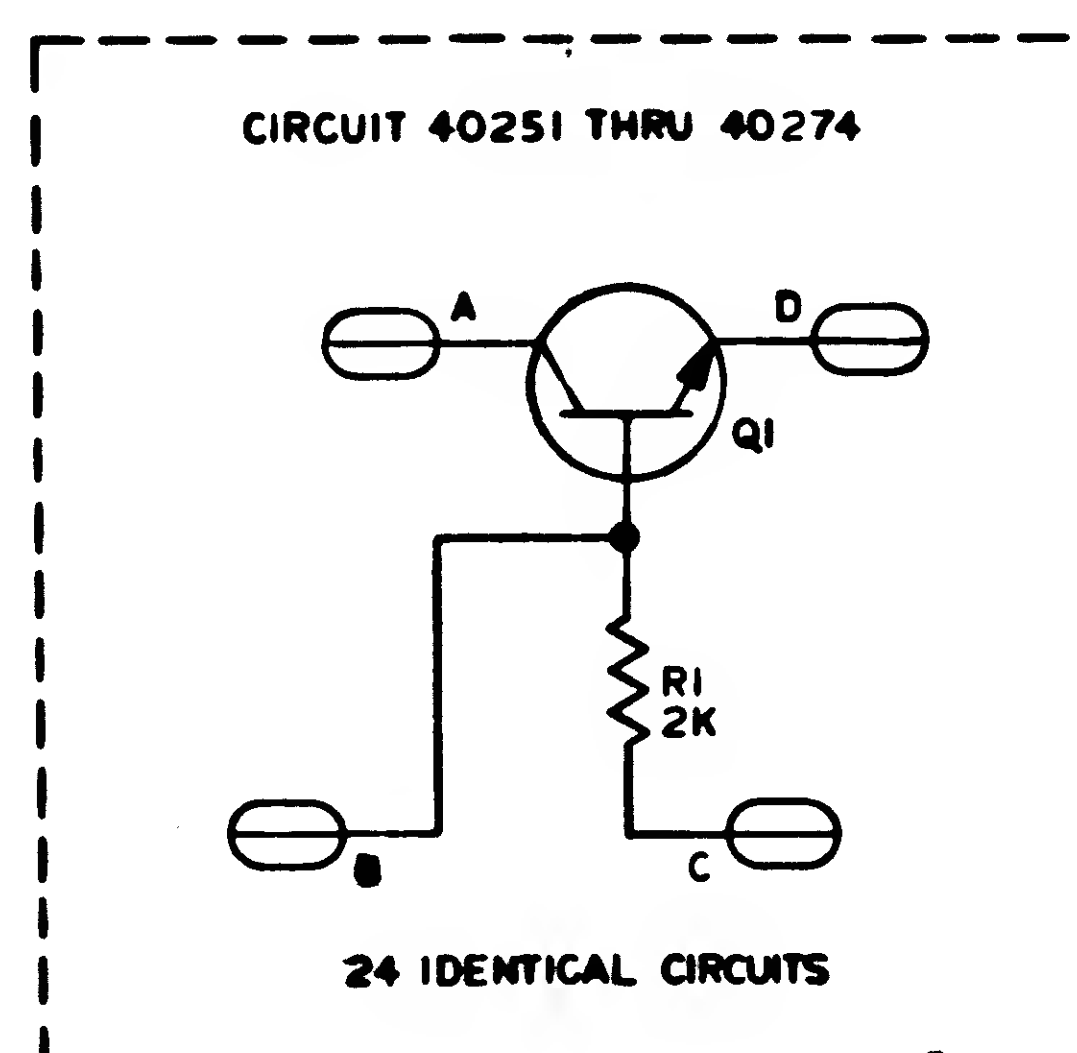
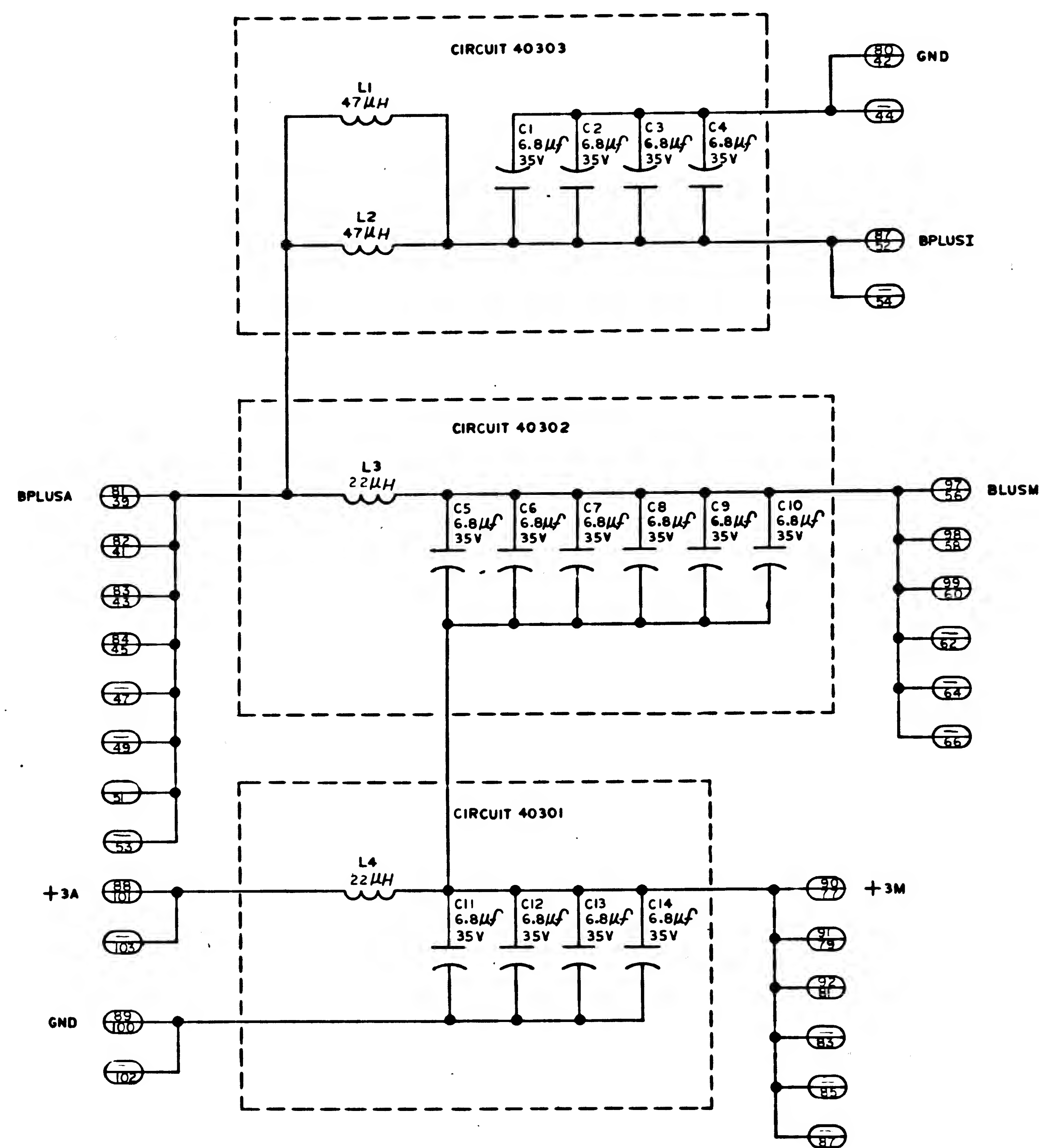
CIRCUIT NO	A	B	C	D
40251	40251 A	40251 B	40251 C	40251 D
40252	40252 A	40252 B	40252 C	40252 D
40253	40253 A	40253 B	40253 C	40253 D
40254	40254 A	40254 B	40254 C	40254 D
40255	40255 A	40255 B	40255 C	40255 D
40256	40256 A	40256 B	40256 C	40256 D
40257	40257 A	40257 B	40257 C	40257 D
40258	40258 A	40258 B	40258 C	40258 D
40259	40259 A	40259 B	40259 C	40259 D
40260	40260 A	40260 B	40260 C	40260 D
40261	40261 A	40261 B	40261 C	40261 D
40262	40262 A	40262 B	40262 C	40262 D
40263	40263 A	40263 B	40263 C	40263 D
40264	40264 A	40264 B	40264 C	40264 D
40265	40265 A	40265 B	40265 C	40265 D
40266	40266 A	40266 B	40266 C	40266 D
40267	40267 A	40267 B	40267 C	40267 D
40268	40268 A	40268 B	40268 C	40268 D
40269	40269 A	40269 B	40269 C	40269 D
40270	40270 A	40270 B	40270 C	40270 D
40271	40271 A	40271 B	40271 C	40271 D
40272	40272 A	40272 B	40272 C	40272 D
40273	40273 A	40273 B	40273 C	40273 D
40274	40274 A	40274 B	40274 C	40274 D

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL D-70327

QTY REQ	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FINO NO
LIST OF MATERIALS			
INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER	
HOUSTON, TEXAS		HOUSTON, TEXAS	
SCHEMATIC		DRIVER SERVICE STICK	
NASA APPROVAL		CODE IDENT NO	NASA DRAWING NO
E		1006082	
MIT APPROVAL		SCALE	WT
APPLICATION		SHEET 1 OF 1	

NOTES: 1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

REVISIONS
A REVISED PER TORR/205 5-16-63



REF. DES.	PART NO.	DESCRIPTION	VALUE	TOL.	RATING
R1	1006750-39	RESISTOR	2K		1/4W
C1	1006755-79	CAPACITOR	6.8µF		35V
C2					
C3					
C4					
C5					
C6					
C7					
C8					
C9					
C10					
C11					
C12					
C13					
C14	1006755-79	CAPACITOR	6.8µF		35V
L1	1010406-14	INDUCTORS	47µH		
L2	1010406-14		47µH		
L3	1006812		22µH		
L4	1006812	INDUCTORS	22µH		
Q1	1006752	TRANSISTOR			

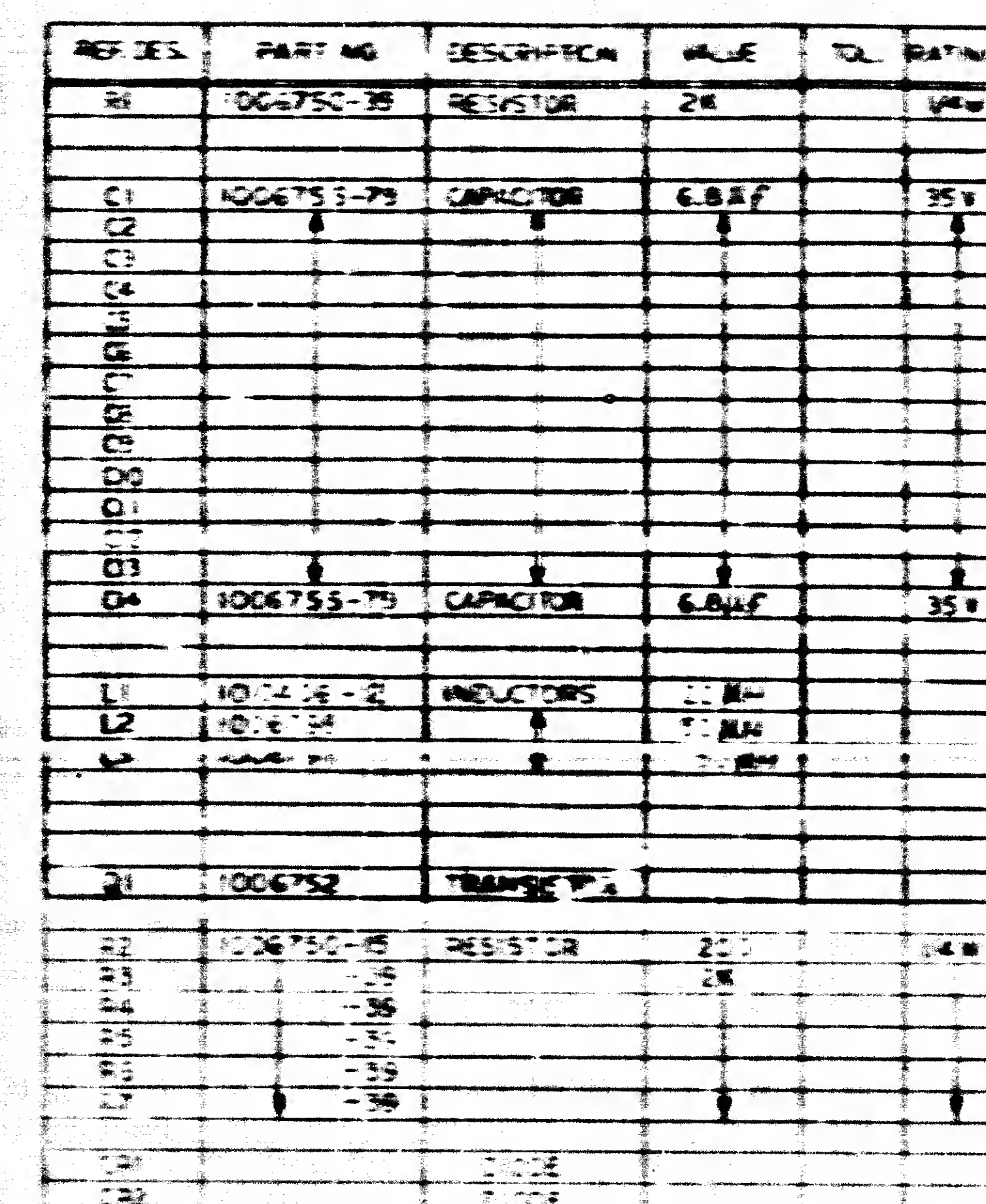
FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 00671 DATE 3-27-63

CIRCUIT NO	A	B	C	D
40251	40251 A	40251 A	40251 A	40251 A
40252	40252 A	40252 A	40252 A	40252 A
40253	40253 A	40253 A	40253 A	40253 A
40254	40254 A	40254 A	40254 A	40254 A
40255	40255 A	40255 A	40255 A	40255 A
40256	40256 A	40256 A	40256 A	40256 A
40257	40257 A	40257 A	40257 A	40257 A
40258	40258 A	40258 A	40258 A	40258 A
40259	40259 A	40259 A	40259 A	40259 A
40260	40260 A	40260 A	40260 A	40260 A
40261	40261 A	40261 A	40261 A	40261 A
40262	40262 A	40262 A	40262 A	40262 A
40263	40263 A	40263 A	40263 A	40263 A
40264	40264 A	40264 A	40264 A	40264 A
40265	40265 A	40265 A	40265 A	40265 A
40266	40266 A	40266 A	40266 A	40266 A
40267	40267 A	40267 A	40267 A	40267 A
40268	40268 A	40268 A	40268 A	40268 A
40269	40269 A	40269 A	40269 A	40269 A
40270	40270 A	40270 A	40270 A	40270 A
40271	40271 A	40271 A	40271 A	40271 A
40272	40272 A	40272 A	40272 A	40272 A
40273	40273 A	40273 A	40273 A	40273 A
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NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

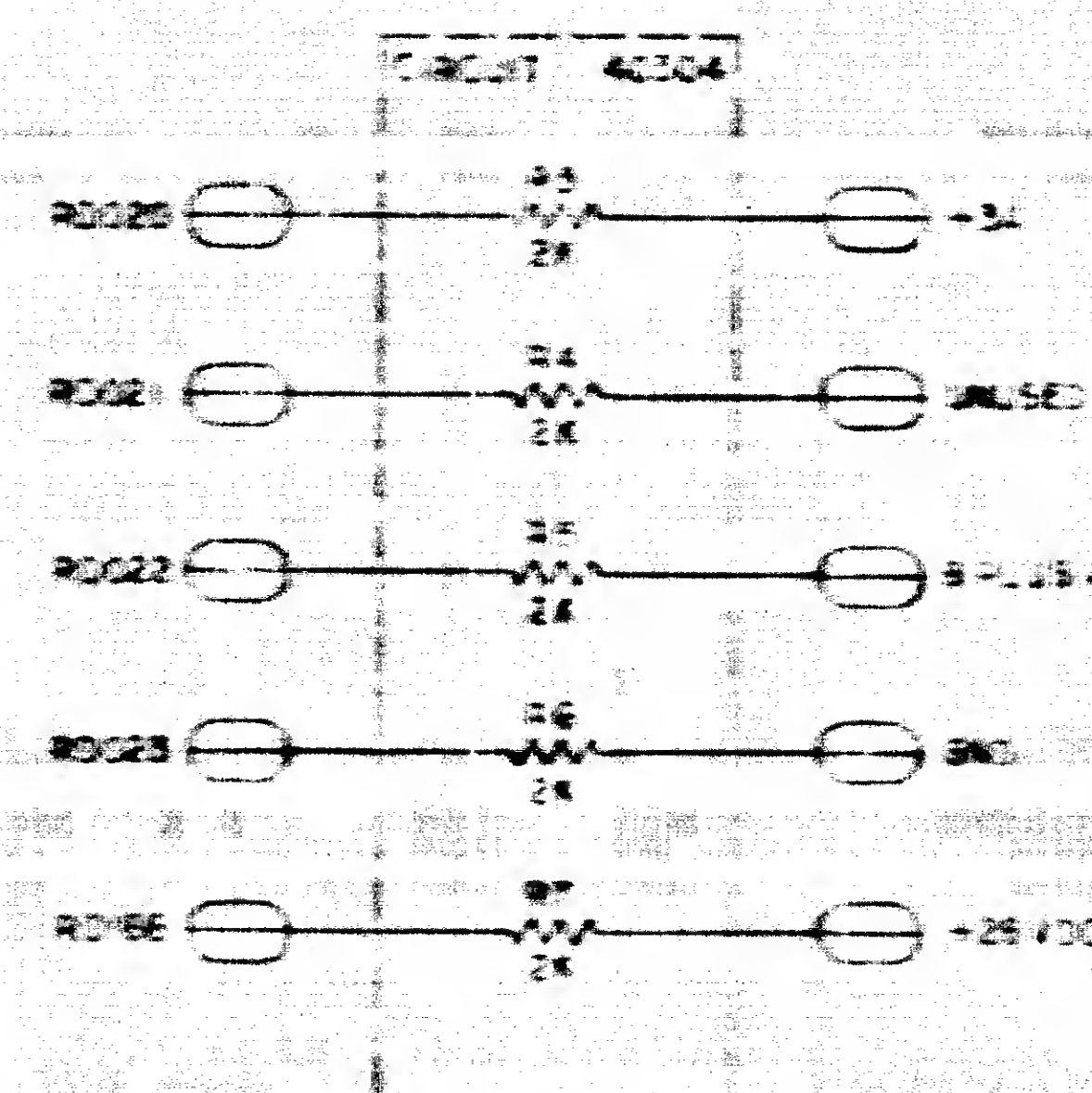
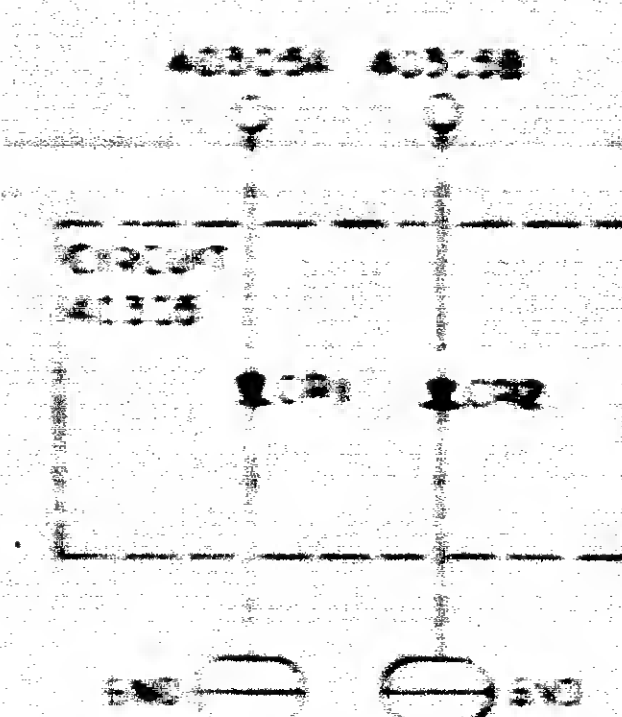
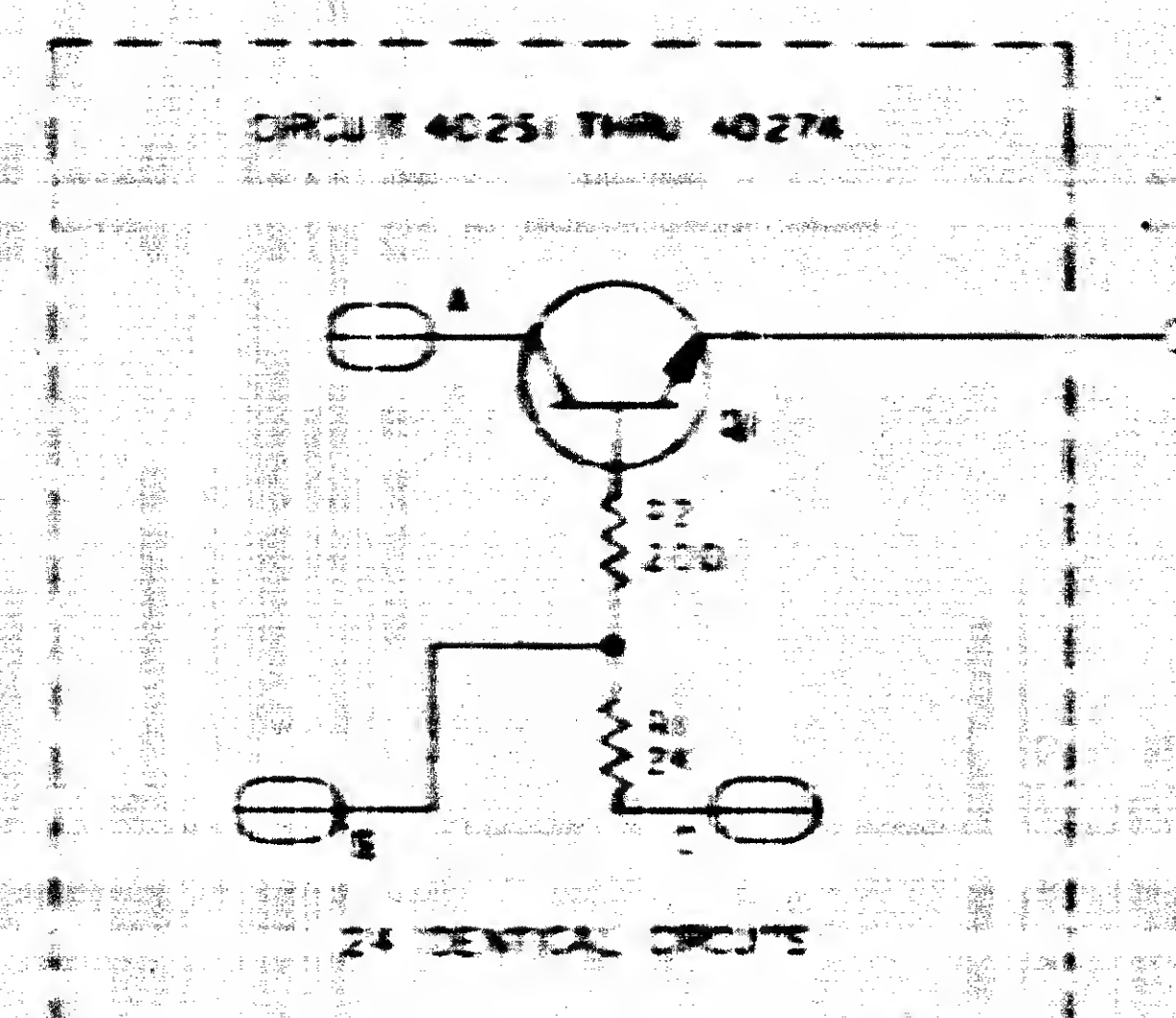
QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	UNIT NO
LIST OF MATERIALS			
INSTRUMENTATION LAB COMMERCIAL LAB		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN BY: [Signature]		CHECKED BY: [Signature]	
APPROVAL BY: [Signature]		APPROVAL BY: [Signature]	
DO NOT SCALE THIS DRAWING		DO NOT SCALE THIS DRAWING	
MATERIAL		MATERIAL	
HEAT TREATMENT		HEAT TREATMENT	
FINAL FINISH		FINAL FINISH	
APPLICATION		APPLICATION	
NEXT ASSY		NEXT ASSY	
USED ON		USED ON	
SCALE		SCALE	
SHEET		SHEET	
1 OF 1		1 OF 1	

INCHES
PHOTOGRAPHIC SCALE ONLY



FOR INFORMATION ONLY
CLASS & RELEASE FOR No. 00-000000 DATE 00-00-00

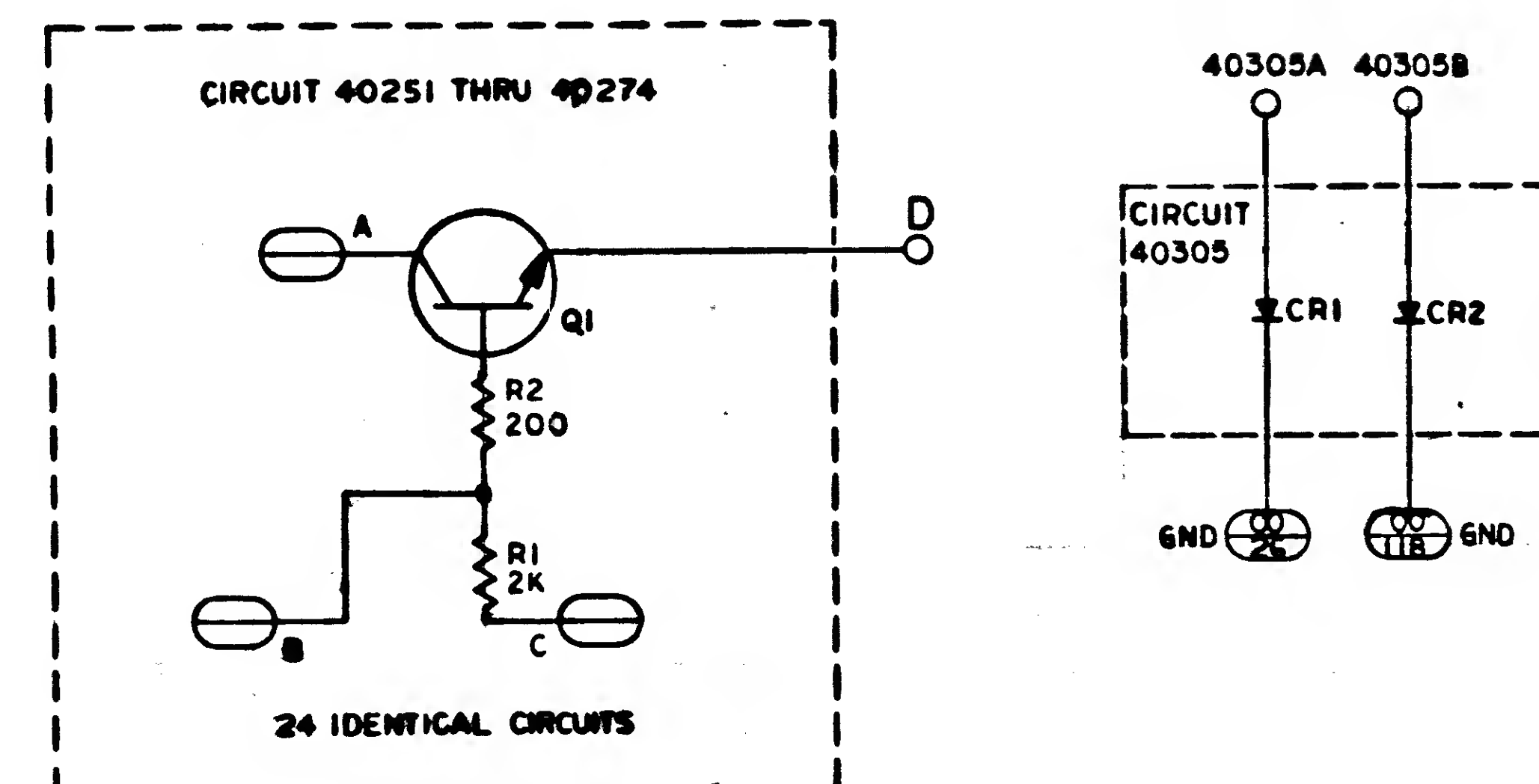
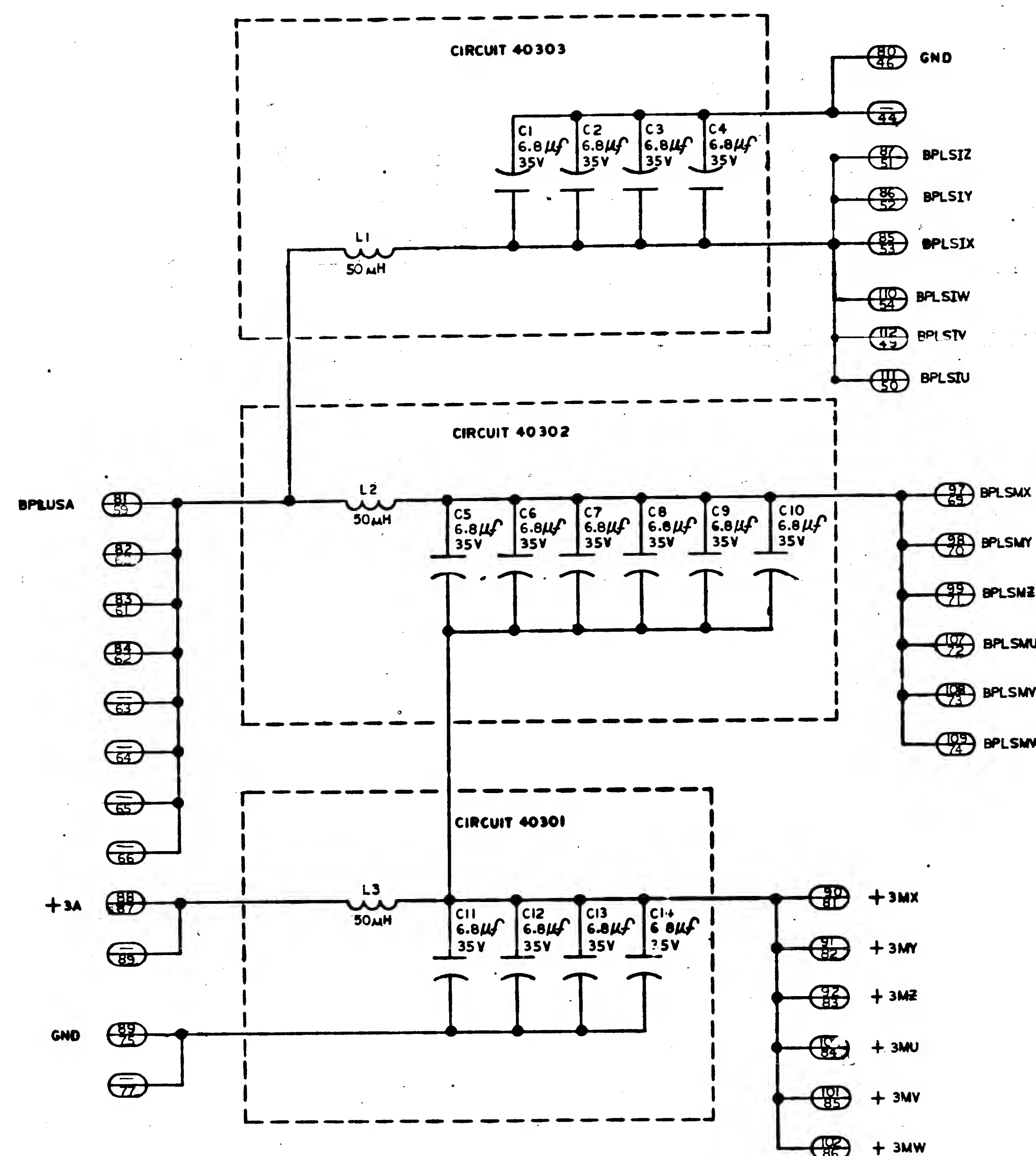
CIRCUIT NO.	A				B				C				D			
	SIGNAL NAME	AGC 5	AGC 4		SIGNAL NAME	AGC 5	AGC 4		SIGNAL NAME	AGC 5	AGC 4		SIGNAL NAME	AGC 5	AGC 4	
40281	40281 A	1	2	AB1E	1	2										
40282	40282 A	1	2	AB1E	1	2			B PLUS W	3	9		40282 A	1	2	
40283	40283 A	1	2	AB1E	1	2										
40284	40284 A	16	3	AB1E	8	3				2						
40285	40285 A	20	14	BB4E	12	72										
40286	40286 A	9	5	BB1E	4	84										
40287	40287 A	9	6	BB1E	4	84										
40288	40288 A	9	5	AB1E	1	12				3						
40289	40289 A	16	10	AB1E	18	16				2						
40290	40290 A	22	8	B1E	14	3										
40291	40291 A	21	20	B1E	1	58										
40292	40292 A	16	2	AB1E	1	12				9						
40293	40293 A	11	50	YB1E	9	60							40293 A			
40294	40294 A	24	51	YB1E	12	69				1						
40295	40295 A	10	52	YB1E	12	70				1						
40296	40296 A	22	40	YB1E	21	71				1						
40297	40297 A	28	54	YB4E	26	72										
40298	40298 A	10	41	YB1E	8	73				1						
40299	40299 A	17	36	YB6E	19	74				1						
40300	40300 A	3	1	B1E	1	1				1						
40301	40301 A	38	51	YB1E	16	76				1						
40302	40302 A	42	43	YB1E	11	77				1						
40303	40303 A	47	36	YB2E	13	78				1						
40304	40304 A	57	36	YB1E	14	79				1						



NOTES

[illegible]

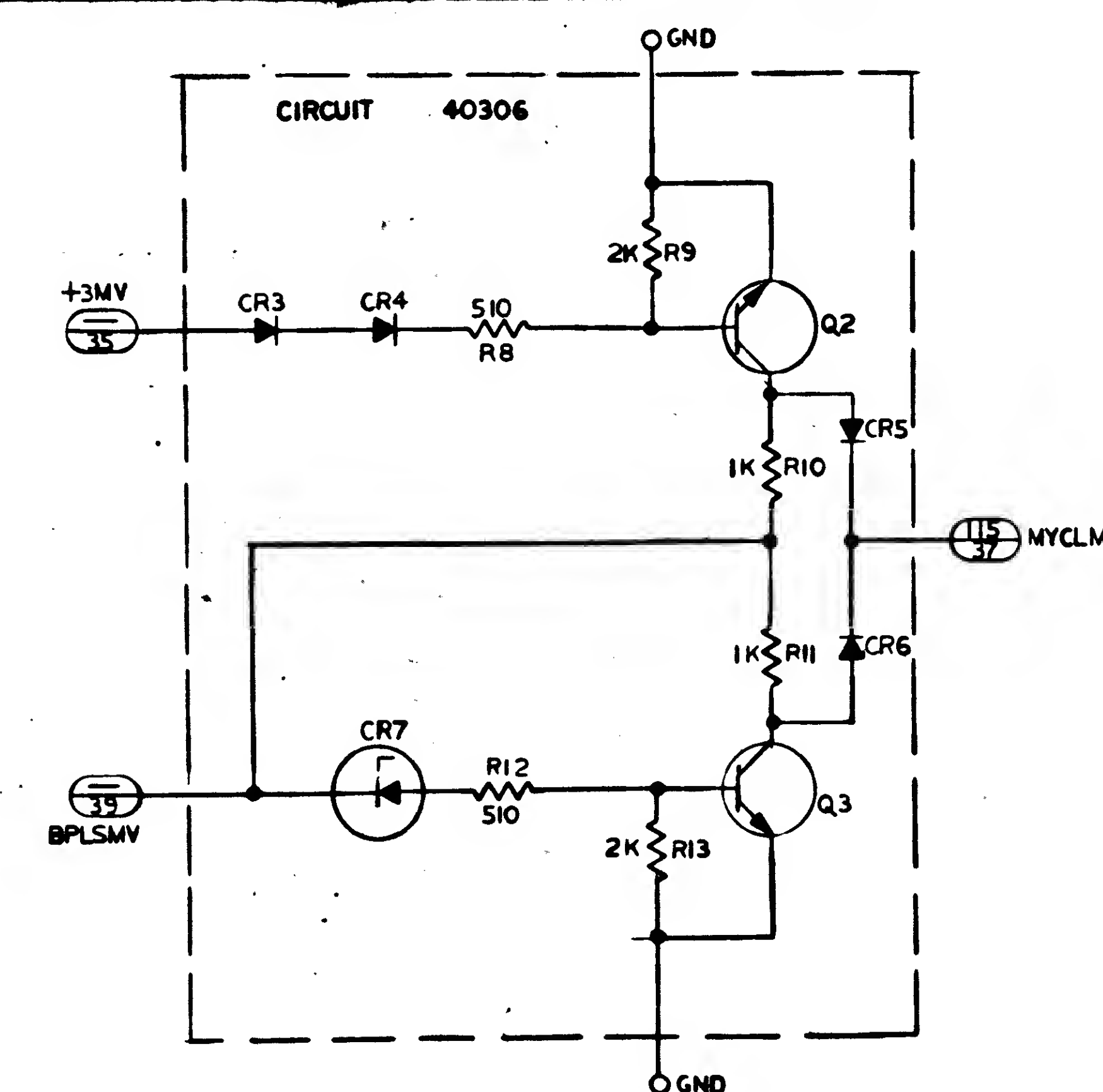
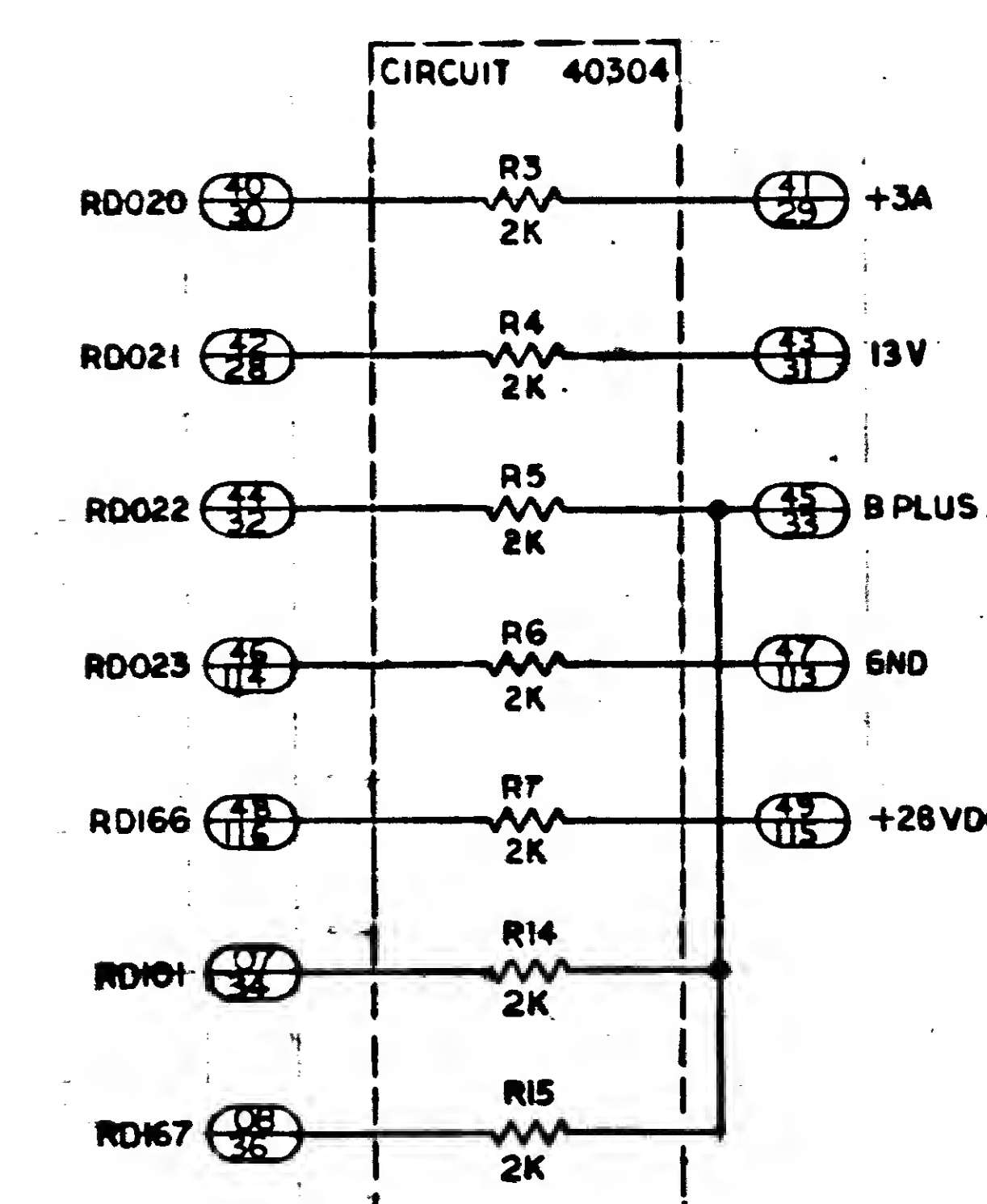
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A	REVISED PER TORR 012005	5-16-63	24
B	REVISED PER TORR 020505	7-15-63	24
C	REVISED PER TORR 031771	7-16-63	24



REF. DES.	PART NO.	DESCRIPTION	VALUE	TOL.	RATING
R1	1006750-39	RESISTOR	2K		1/4W
C1	1006755-79	CAPACITOR	6.8μF		35V
C2					
C3					
C4					
C5					
C6					
C7					
C8					
C9					
C10					
C11					
C12					
C13					
C14	1006755-79	CAPACITOR	6.8μF		35V
L1	1006798	INDUCTORS	50μH		
L2	1006798		50μH		
L3	1006798		50μH		
Q1	1006752	TRANSISTOR			
Q2					
Q3					
R2	1006750-15	RESISTOR	200		1/4W
R3					
R4					
R5					
R6					
R7					
R8					
R9					
R10					
R11					
R12					
R13					
R14					
R15					

REF. DES.	PART NO.	DESCRIPTION	VALUE	TOL.	RATING
CR1	1006751	DIODE			
CR2					
CR3					
CR4					
CR5					
CR6					
CR7	1006838				

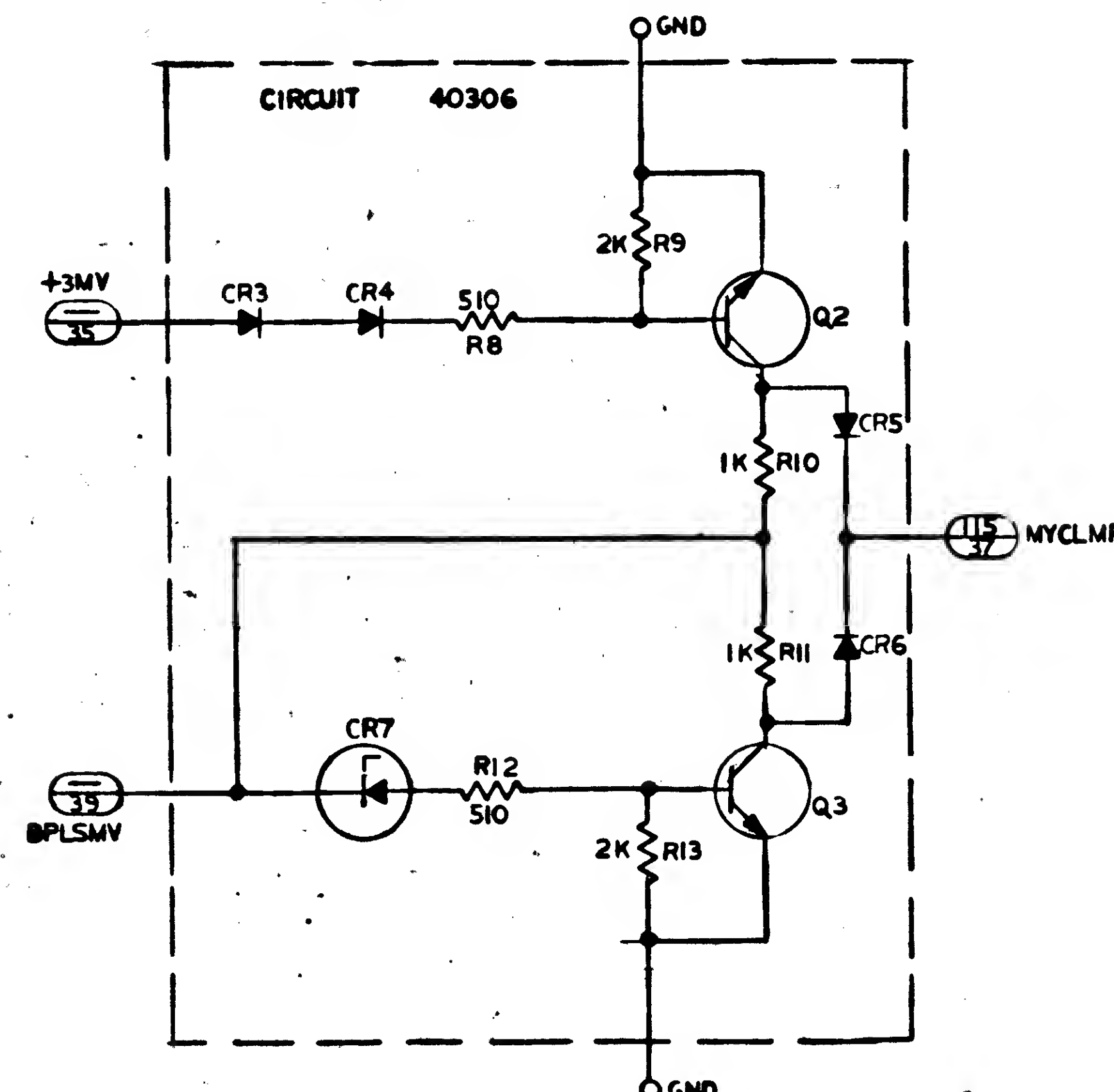
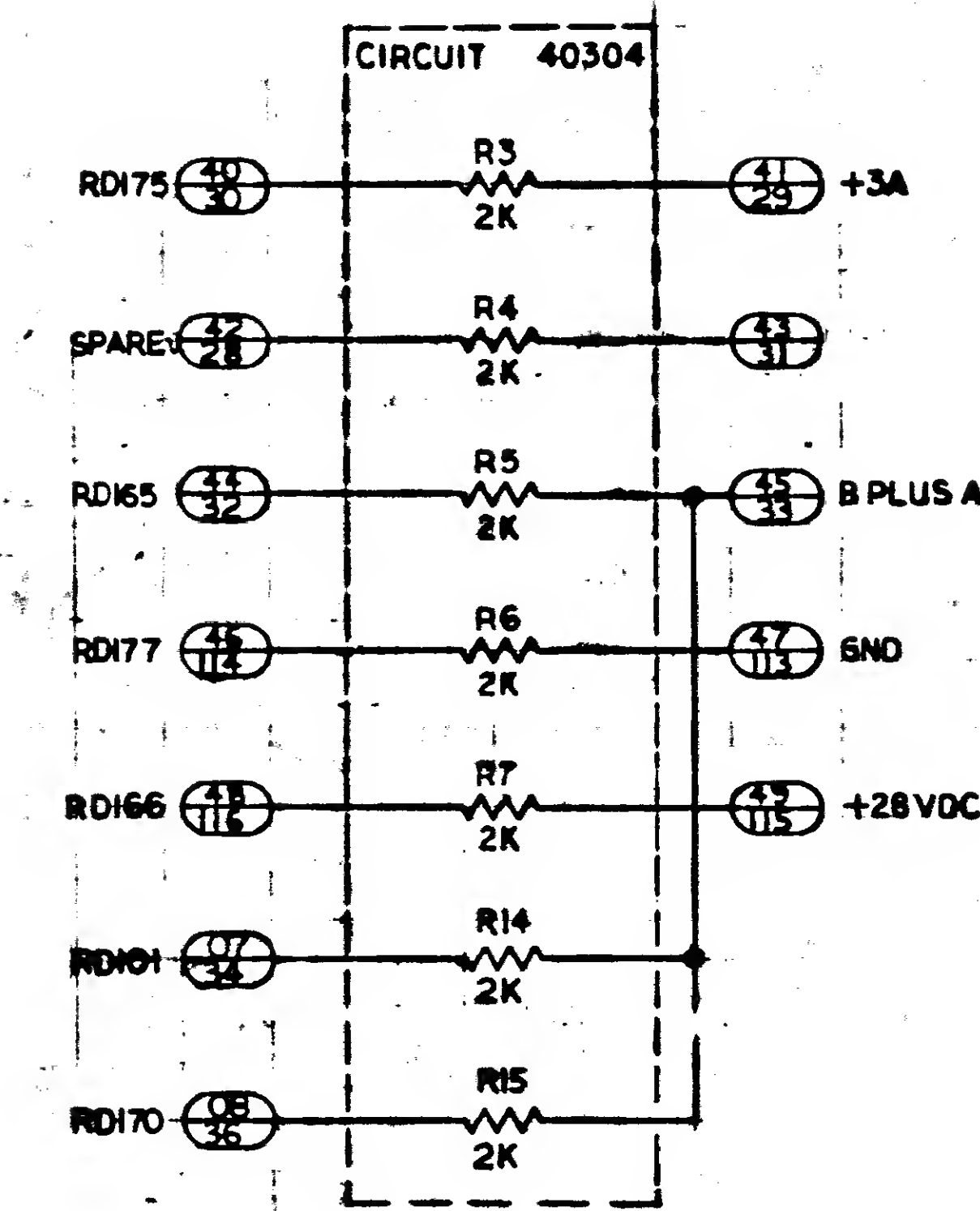
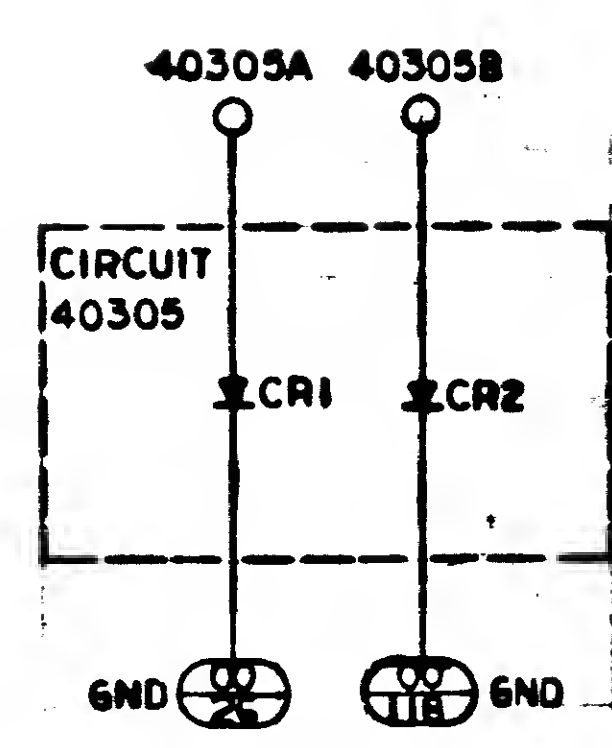
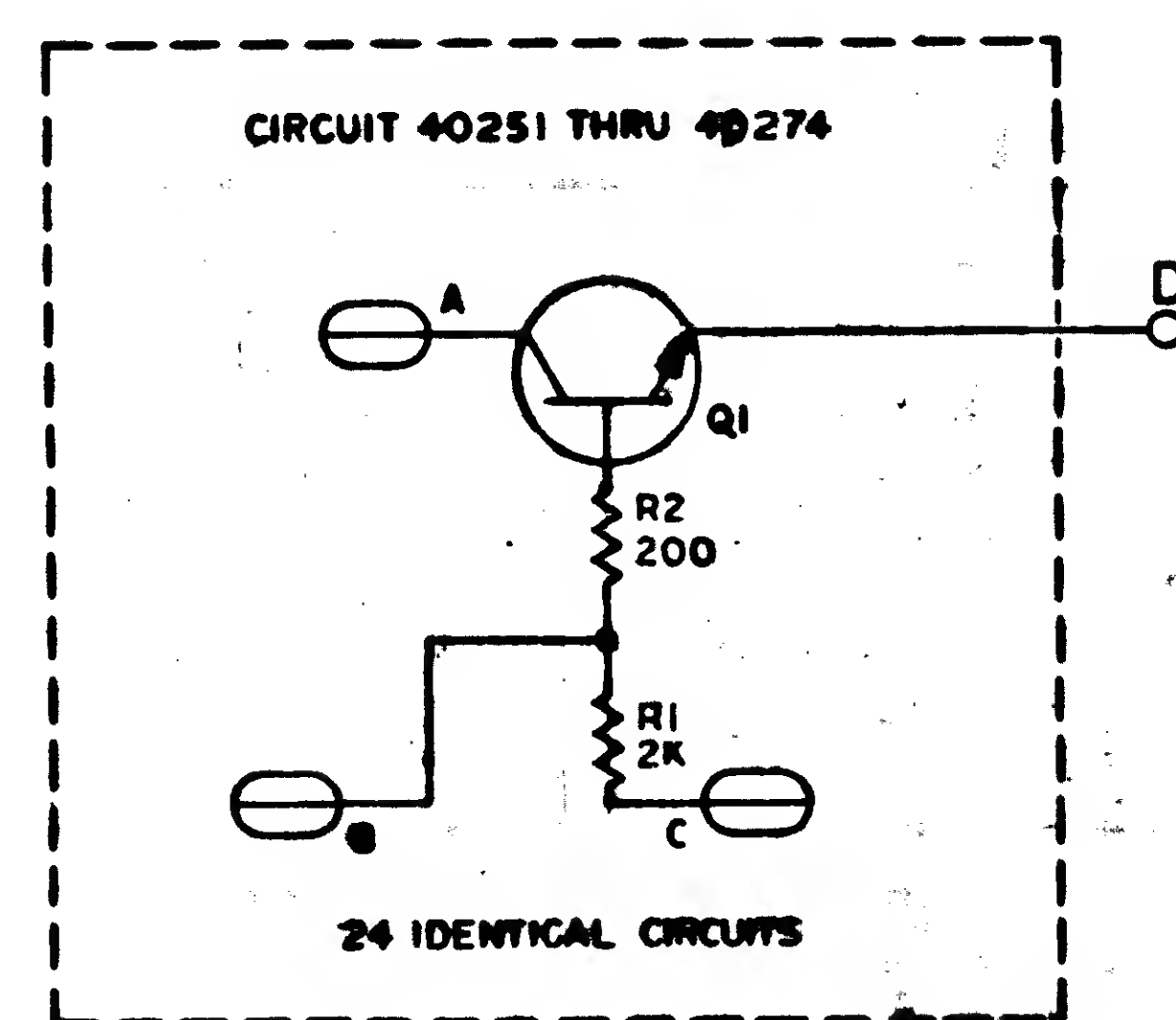
ASSEMBLY REFERENCE PREFIX	CIRCUIT NO.	A		B		C		D						
		SIGNAL NAME	AGC 5	AGC 4	SIGNAL NAME	AGC 5	AGC 4	SIGNAL NAME	AGC 5	AGC 4	SIGNAL NAME	AGC 5	AGC 4	INT
12	40251	40251 A	23	10	XBOE	24	26							
8	40252	40252 A	15	11	XBIE	16	29	BPLSMZ	27	INT	40305A	INT	INT	
11	40253	40253 A	14	12	XBIE	17	31							
7	40254	40254 A	14	13	XB3E	17	31							
9	40255	40255 A	18	14	XB4E	21	32							
5	40256	40256 A	10	15	XB5E	11	33							
10	40257	40257 A	19	16	XB6E	20	34							
6	40258	40258 A	09	17	XB7E	12	35							
3	40259	40259 A	06	18	XT0E	07	36							
1	40260	40260 A	02	19	XT1E	03	37							
2	40261	40261 A	01	20	XT2E	04	38							
4	40262	40262 A	05	21	XT3E	08	39		27					
20	40263	40263 A	133	50	YBOE	132	68		117		40305B			
15	40264	40264 A	126	51	YB1E	123	69							
19	40265	40265 A	134	52	YB2E	131	70							
16	40266	40266 A	125	53	YB3E	124	71							
17	40267	40267 A	130	54	YB4E	127	72							
13	40268	40268 A	122	55	YB5E	119	73							
18	40269	40269 A	129	56	YB6E	128	74							
14	40270	40270 A	121	57	YB7E	120	75							
21	40271	40271 A	138	58	YTOE	135	76							
23	40272	40272 A	142	59	YT1E	139	77							
24	40273	40273 A	141	60	YT2E	140	78							
22	40274	40274 A	137	61	YT3E	136	79		117					



NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL D-70327

QTY. REQD.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG. NO.
INSTRUMENTATION LAB MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC DRIVER SERVICE MODULE B7			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS OR DECIMALS DO NOT SCALE THIS DRAWING MATERIAL HEAT TREATMENT FINISH TREATMENT APPLICATION		NASA APPROVAL DATE 7-16-63 CODE 01-110 SIZE E 1006082 SCALE 1 OF 1	

INCHES
PHOTOGRAPHIC SCALE ONLY



REF. DES.	PART NO.	DESCRIPTION	VALUE	TOL.	RATING
R1	1006750-39	RESISTOR	2K		1/4W
C1	1006755-79	CAPACITOR	6.8 μ F		35V
C2					
C3					
C4					
C5					
C6					
C7					
C8					
C9					
C10					
C11					
C12					
C13					
C14	1006755-79	CAPACITOR	6.8 μ F		35V
L1	1006798	INDUCTORS	50 μ H		
L2	1006798		50 μ H		
Q1	1006752	TRANSISTOR			
Q2					
Q3					
R2	1006750-15	RESISTOR	200		1/4W
R3	-39		2K		
R4	-39				
R5	-39				
R6	-39				
R7	-39				
R8	-25		510		
R9	-39		2K		
R10	-32		1K		
R11	-32		1K		
R12	-25		510		
R13	-39		2K		
R14	-39		2K		
R15	-39		2K		

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
CR1	1006751	DIODE			
CR2					
CR3					
CR4					
CR5					
CR6					
CR7	1006838				

ASSEMBLY REFERENCE PAGE #1	CIRCUIT NO.	A			B			C			D		
		SIGNAL NAME	AGC 5	AGC 4	SIGNAL NAME	AGC 5	AGC 4	SIGNAL NAME	AGC 5	AGC 4	SIGNAL NAME	AGC 5	AGC 4
12	40251	40251 A	23	10	XBOE	24	28						
8	40252	40252 A	15	11	XB1E	16	29						
11	40253	40253 A	22	12	XR2E	25	30						
7	40254	40254 A	14	13	XB3E	17	31						
9	40255	40255 A	18	14	XB4E	21	32						
5	40256	40256 A	10	15	XB5E	11	33						
10	40257	40257 A	19	16	XB6E	20	34						
6	40258	40258 A	09	17	XR7E	12	35						
3	40259	40259 A	06	18	XT0E	07	36						
1	40260	40260 A	02	19	XT1E	03	37						
2	40261	40261 A	01	20	XT2E	04	38						
4	40262	40262 A	05	21	XT3E	08	39						
20	40263	40263 A	133	50	YB0E	132	68						
15	40264	40264 A	126	51	YB1E	123	69						
19	40265	40265 A	134	52	YB2E	124	70						
16	40266	40266 A	125	53	YB3E	124	71						
17	40267	40267 A	130	54	YB4E	127	72						
13	40268	40268 A	122	55	YB5E	119	73						
18	40269	40269 A	129	56	YB6E	128	74						
14	40270	40270 A	121	57	YB7E	120	75						
21	40271	40271 A	138	58	YB7E	135	76						
23	40272	40272 A	142	59	Y11E	138	77						
24	40273	40273 A	141	60	Y12E	140	78						
22	40274	40274 A	137	61	Y13E	136	79						

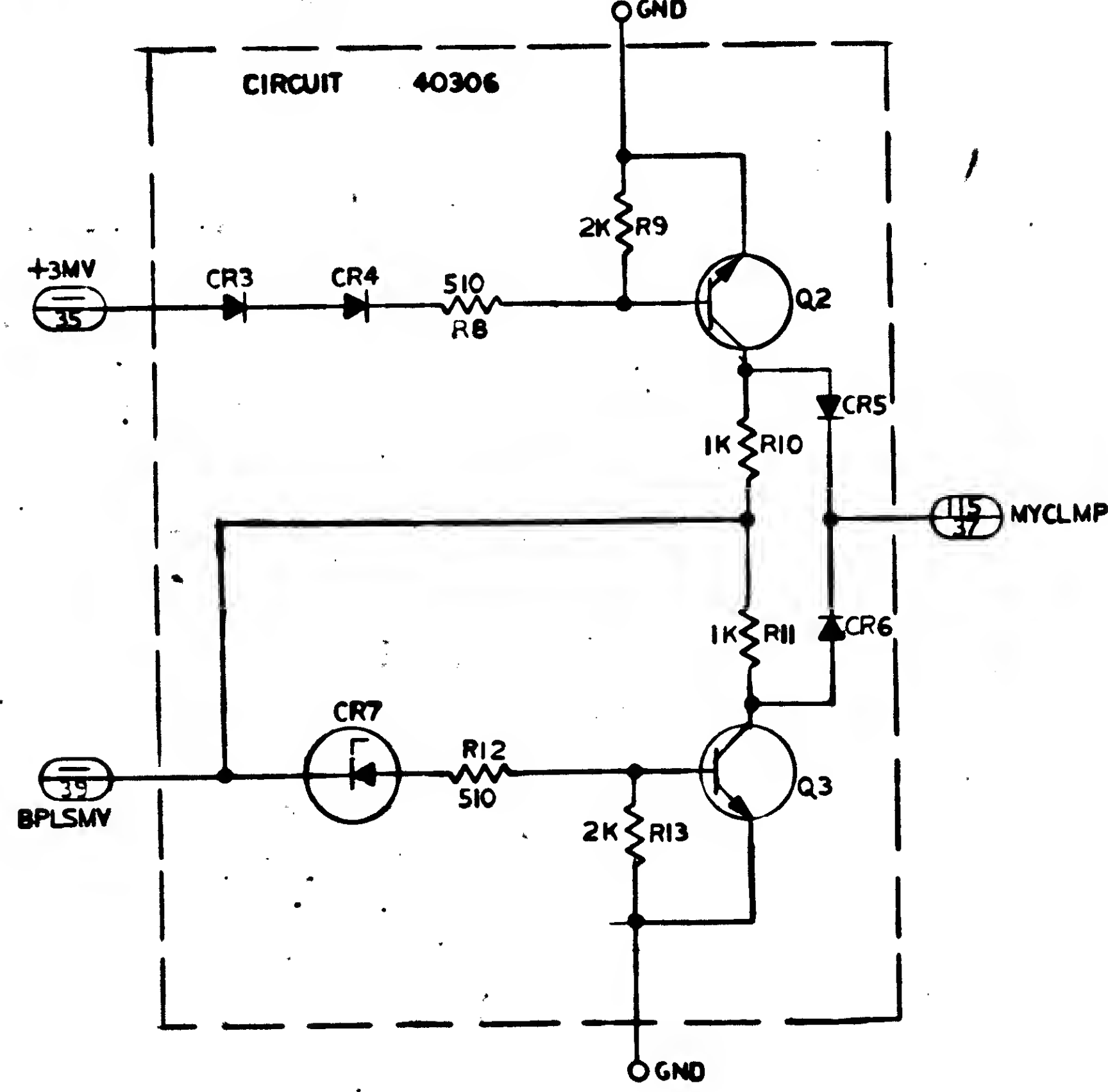
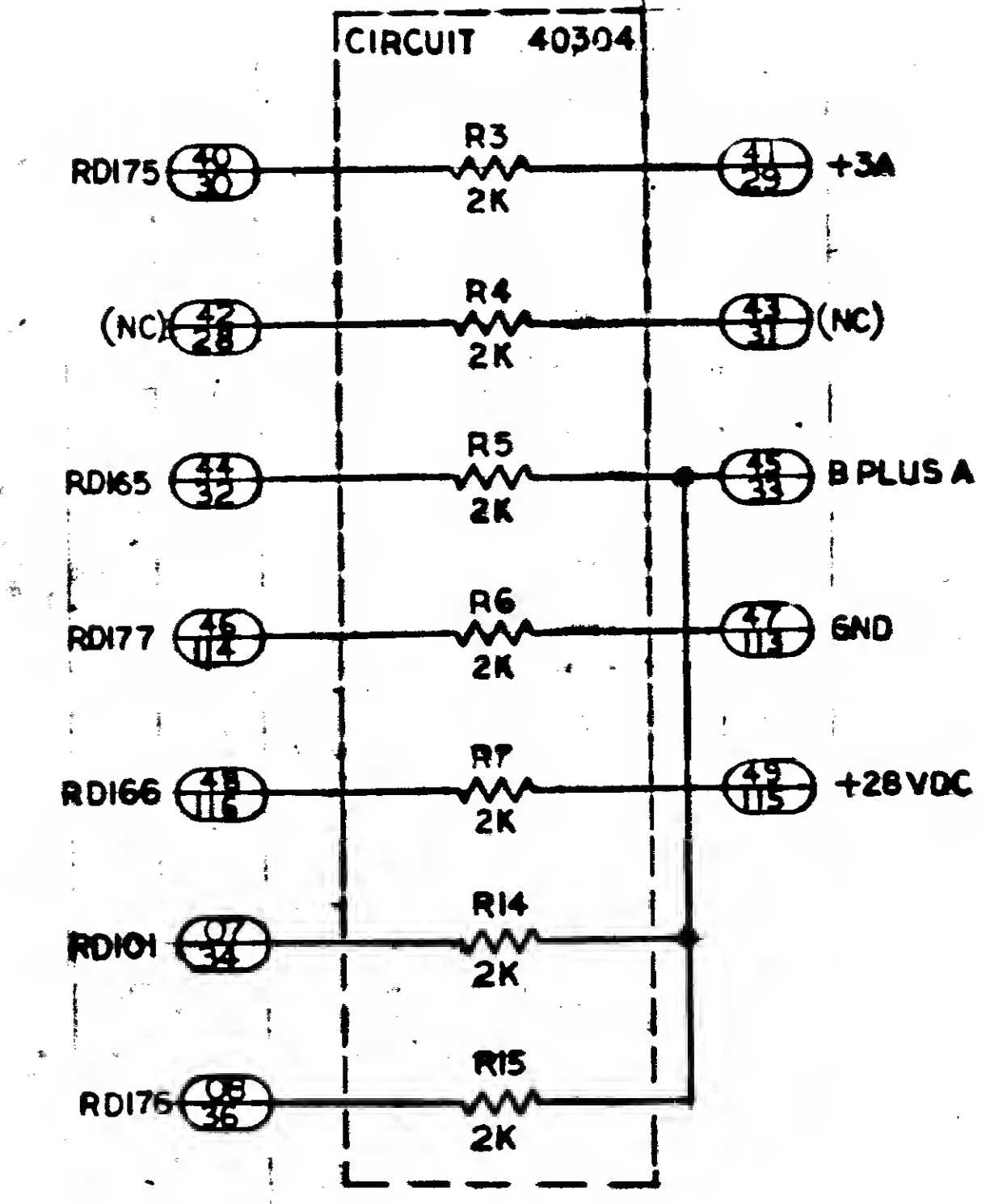
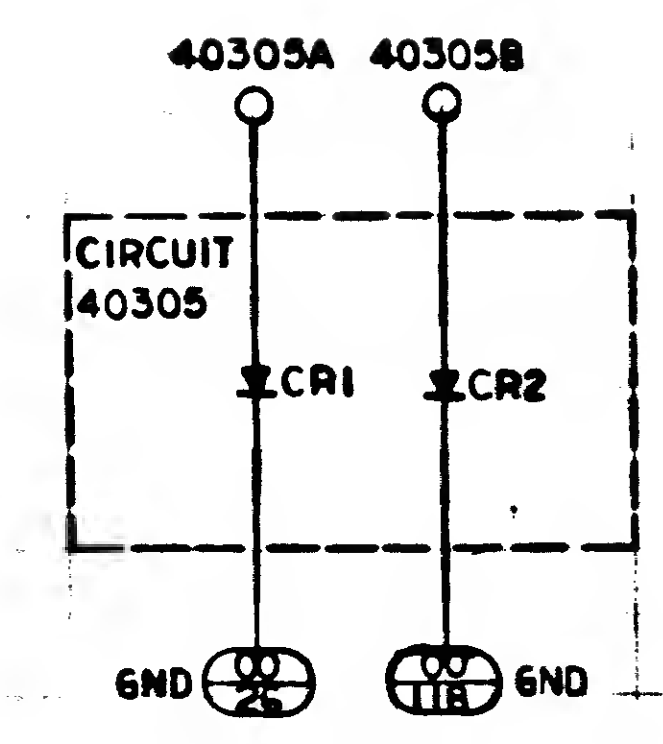
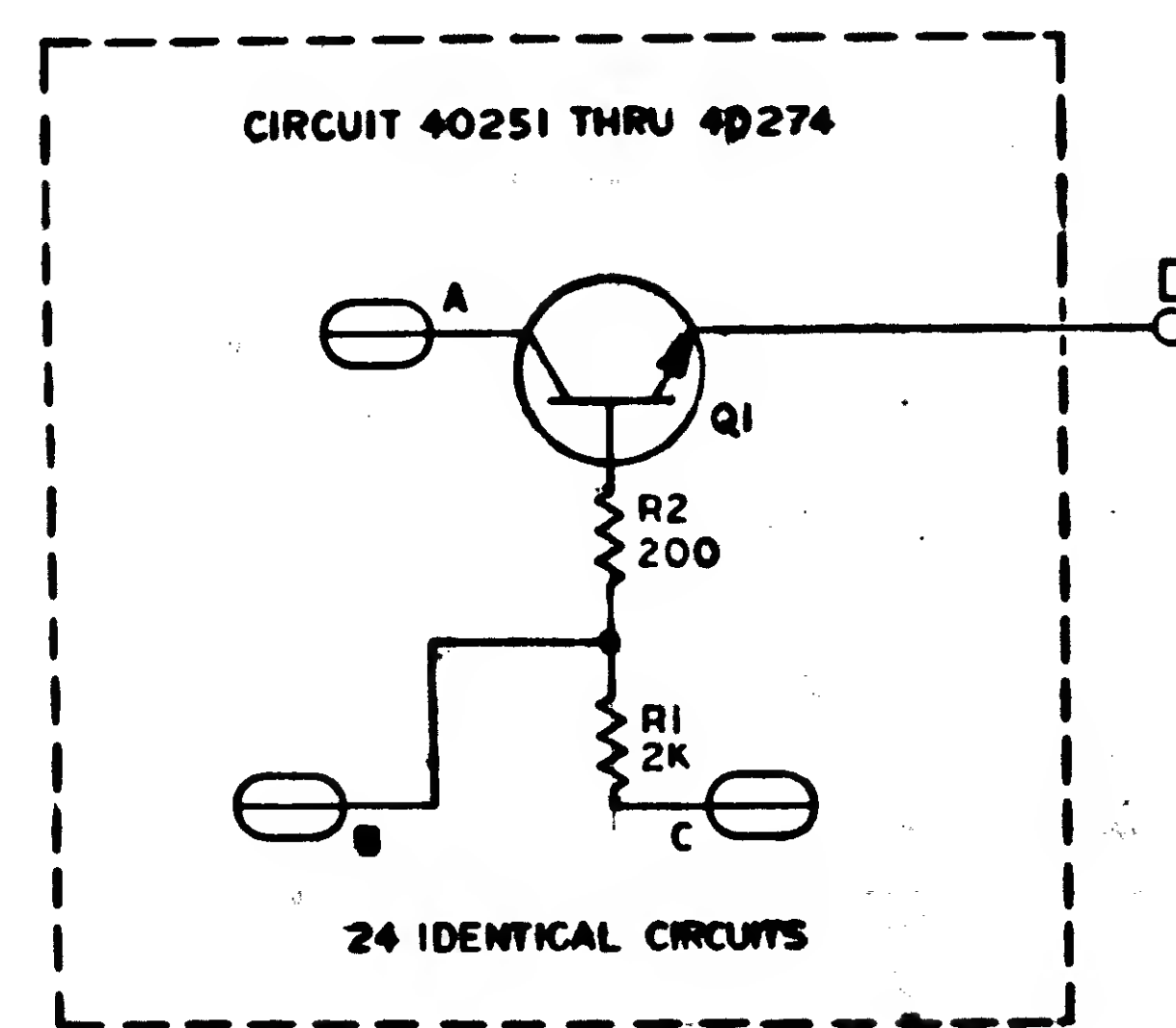
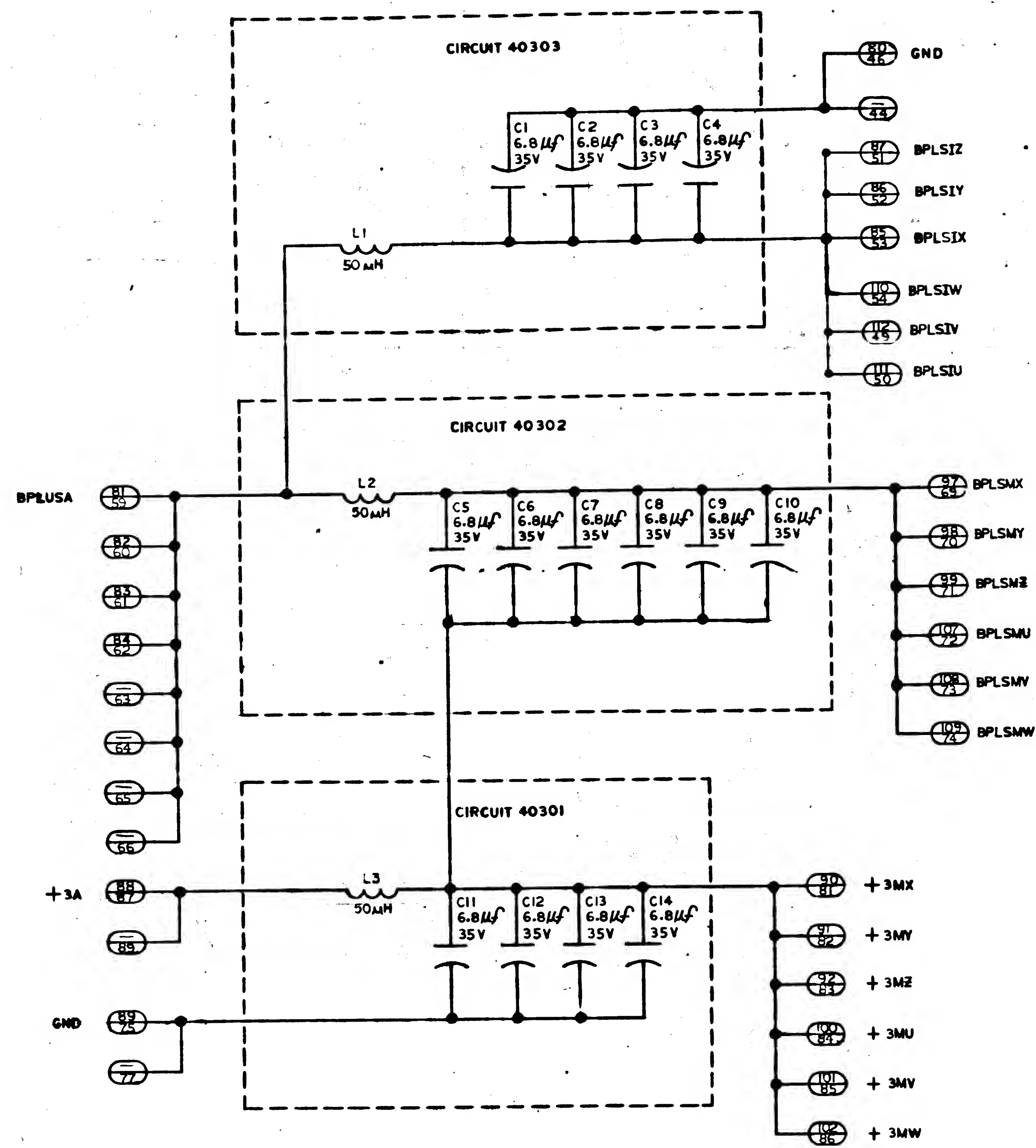
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL D-70327

QTY		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
LIST OF MATERIALS MANNED SPACECRAFT CENTER HOUSTON, TEXAS							
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ±				DRAWING NO. <u>2-100-082</u> CHECKED <u>W.D. RILEY</u> DATE <u>3/2/63</u> APPROVAL <u>W.D. RILEY</u> APPROVAL <u>W.D. RILEY</u> DATE <u>3/2/63</u>			
DO NOT SCALE THIS DRAWING MATERIAL _____				SCHEMATIC DRIVER SERVICE MODULE B7			
HEAT TREATMENT _____ NEXT ASST _____ USED ON _____ APPLICATION _____				NASA APPROVAL <u>W.D. RILEY</u> DATE <u>3/2/63</u> CODE IDENT NO. _____ SIZE _____ NASA DRAWING NO. <u>100-082</u> INT APPROVAL <u>W.D. RILEY</u> DATE <u>3/2/63</u> SCALE _____ IN _____ SHEET _____ OF _____			

NOTE: THIS DRAWING IS THE PROPERTY OF NASA. IT IS TO BE USED FOR THE PURPOSES SPECIFIED IN THE CONTRACT. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM NASA.

REV	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 012095	5-16-83	W. J. H.
B	REVISED PER TDRR 02052	7-11-83	W. J. H.
C	REVISED PER TDRR 03171	7-16-83	W. J. H.
D	REVISED PER TDRR 05751	7-16-83	W. J. H.
E	REVISED PER TDRR 06821	7-16-83	W. J. H.



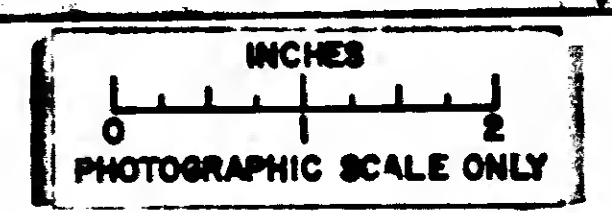
REF. DES.	PART NO.	DESCRIPTION	VALUE	TOL.	RATING
R1	1006750-39	RESISTOR	2K		1/4W
C1	1006755-79	CAPACITOR	6.8μF		35V
C2					
C3					
C4					
C5					
C6					
C7					
C8					
C9					
C10					
C11					
C12					
C13					
C14	1006755-79	CAPACITOR	6.8μF		35V
L1	1006798	INDUCTORS	50μH		
L2	1006798		50μH		
L3	1006798		50μH		
Q1	1006752	TRANSISTOR			
Q2					
Q3					
R2	1006750-15	RESISTOR	200		1/4W
R3	-39		2K		
R4	-39				
R5	-39				
R6	-39				
R7	-39				
R8	-25		510		
R9	-39		2K		
R10	-32		1K		
R11	-32		1K		
R12	-25		510		
R13	-39		2K		
R14	-39		2K		
R15	-39		2K		

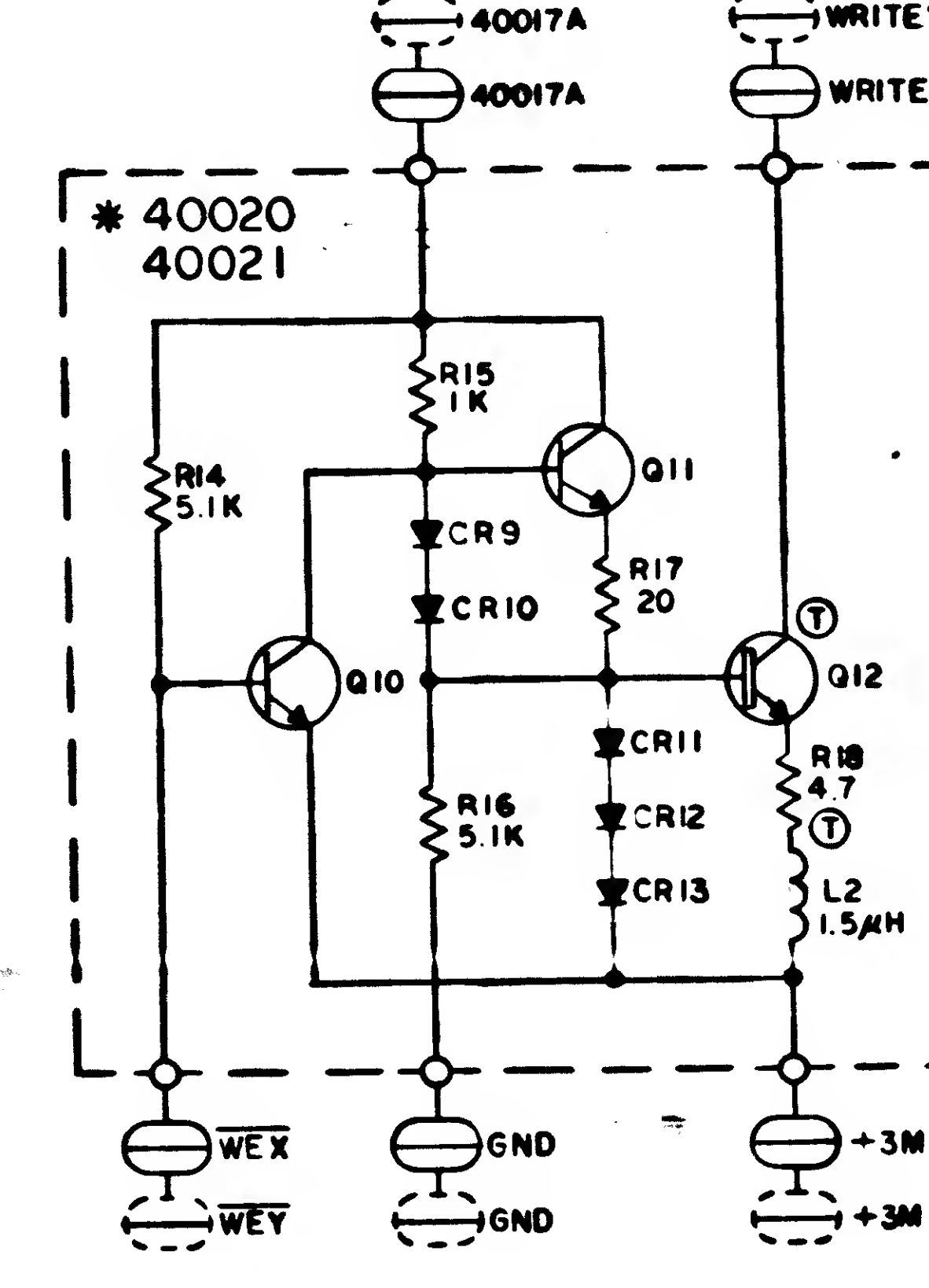
REF. DES.	PART NO.	DESCRIPTION	VALUE	TOL.	RATING
CR1	1006751	DIODE			
CR2					
CR3					
CR4					
CR5					
CR6					
CR7	1006838				

ASSEMBLY REFERENCE PREFIX	CIRCUIT NO.	SIGNAL NAME	AGC 5	AGC 4	SIGNAL NAME	AGC 5	AGC 4	SIGNAL NAME	AGC 5	AGC 4	SIGNAL NAME	AGC 5	AGC 4
12	40251	40251 A	23	10	XB0E	24	28	BPLSMZ	27	117	40305A	INT	INT
8	40252	40252 A	15	11	XB1E	16	29						
11	40253	40253 A	22	12	XB2E	25	30						
7	40254	40254 A	14	13	XB3E	17	31						
9	40255	40255 A	18	14	XB4E	21	32						
5	40256	40256 A	10	15	XB5E	11	33						
10	40257	40257 A	19	16	XB6E	20	34						
6	40258	40258 A	09	17	XB7E	12	35						
3	40259	40259 A	06	18	XT0E	07	36						
1	40260	40260 A	02	19	XT1E	03	37						
2	40261	40261 A	01	20	XT2E	04	38						
4	40262	40262 A	05	21	XT3E	08	39						
20	40263	40263 A	133	50	YB0E	132	68						
15	40264	40264 A	126	51	YB1E	123	69						
19	40265	40265 A	134	52	YB2E	131	70						
16	40266	40266 A	125	53	YB3E	124	71						
17	40267	40267 A	130	54	YB4E	127	72						
13	40268	40268 A	122	55	YB5E	119	73						
18	40269	40269 A	129	56	YB6E	128	74						
14	40270	40270 A	121	57	YB7E	120	75						
21	40271	40271 A	138	58	YT0E	135	76						
23	40272	40272 A	142	59	YT1E	139	77						
24	40273	40273 A	141	60	YT2E	140	78						
22	40274	40274 A	137	61	YT3E	136	79						

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG. NO.
LIST OF MATERIALS			
INSTRUMENTATION LAB			
MANNED SPACECRAFT CENTER			
HOUSTON, TEXAS			
SCHEMATIC DRIVER SERVICE MODULE B7			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		NASA APPROVAL	
FRACTIONS DECIMALS ANGLES		CODE IDENT NO. E	
DO NOT SCALE THIS DRAWING		SCALE	
MATERIAL		SHEET 1 OF 1	
HEAT TREATMENT			
FINISH			
APPLICATION			

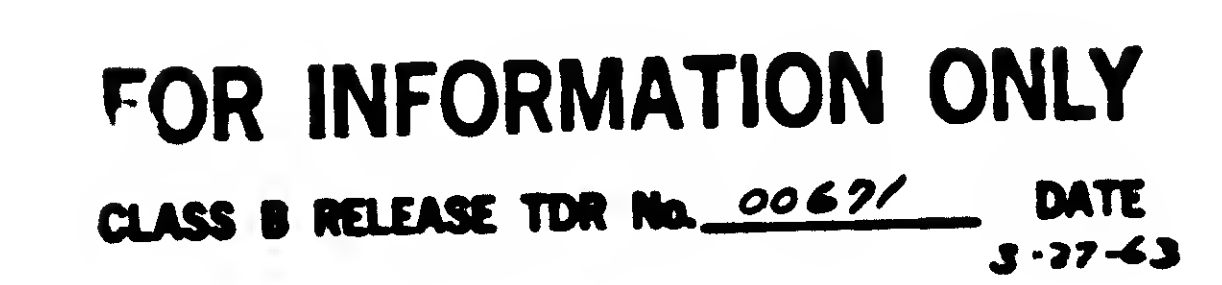


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REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CIRCUIT NO. USED ON	
						STICK NO. 1	STICK NO. 2
R1	1006750-49	RESISTOR	5.1K		1/4 W		
R2	1006750-32		1K				
R3	1010369-148		20				
R4	1006750-49		5.1K				
R5	1006788-01		4.7			40005	40001
CR1	1006751	DIODE				40006	40002
CR2						40007	40003
CR3						40008	40004
CR4						40009	40013
CR5						40010	40014
						40011	40015
						40012	40016
Q1	1006752	TRANSISTOR					
Q2	1006752						
Q3	1006758						
R6	1006750-49	RESISTOR	5.1K		1/4 W	40017	40022
R7	-39		2K				
R8	-39		2K				
R9	-39		2K				
R10	-12		1K				
R11	-49		5.1K			40018	40019
R12	-32		1K				
R13	1010369-148		20				
R14	1006750-49		5.1K			40021	40020
R15	-32		1K				
R16	-49		5.1K				
R17	1010369-148		20				
R18	1006788-01		4.7				
R19	1006750-32		1K			40023	40025
R20	-49		5.1K				
R21	1010369-148		20				
R22	1006750-32		1K			40024	40026
R23	-49		5.1K				
R24	1010369-148		20				
R25	1006750-49		5.1K			40027	40028
R26	-32		1K				
R27	-49		5.1K				
R28	1010369-148		20				
R29	1006788-01		4.7				
CR6	1006751	DIODE				40018	40019
CR7							
CR8							
CR9						40021	40020
CR10							
CR11							
CR12							
CR13							

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CIRCUIT NO. USED ON	
						STICK NO. I	STICK NO.
CR14	1006751	DIODE				40023	40025
CR15						40023	40025
CR16						40024	40026
CR17						40024	40026
CR18						40027	40028
CR19							
CR20							
CR21							
CR22							
L1	1006756-6	INDUCTOR	3.9 μ H			40018	40019
L2	-4		1.5 μ H			40021	40020
L3	-4		1.5 μ H			40027	40028
Q4	1006752	TRANSISTOR				40017	40022
Q5	1006753						
Q6	1006759						
Q7	1006759						
Q8	1006752					40018	40019
Q9	1006759					40018	40019
Q10	1006752					40021	40020
Q11	1006752						
Q12	1006759					40023	40025
Q13	1006752					40024	40026
Q14						40027	40028
Q15							
Q16							
Q17	1006759						

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIN NO.	
LIST OF MATERIALS				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ON DECIMALS ON ANGLES ON				INSTRUMENTATION LAB COLUMBIA AVE HOUSTON, TEXAS DATE 3/20/68 DRAWN BY <i>W. J. Rhee</i> CHECKED BY <i>W. J. Rhee</i> APPROVAL <i>W. J. Rhee</i> APPROVAL <i>W. J. Rhee</i>			
DO NOT SCALE THIS DRAWING MATERIAL				SCHEMATIC ERASABLE DRIVERS STICK			
MEAT TREATMENT				NASA APPROVAL <i>W. J. Rhee</i> DATE 3-27-68			
NEXT ASSEMBLY USED ON				CODE IDENT NO. SIZE E NASA DRAWING NO. 1006086			
FINAL FINISH				MFT APPROVAL <i>W. J. Rhee</i> DATE 3-27-68			
SHEET : OF				3 7			



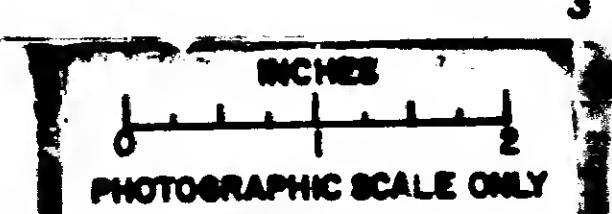
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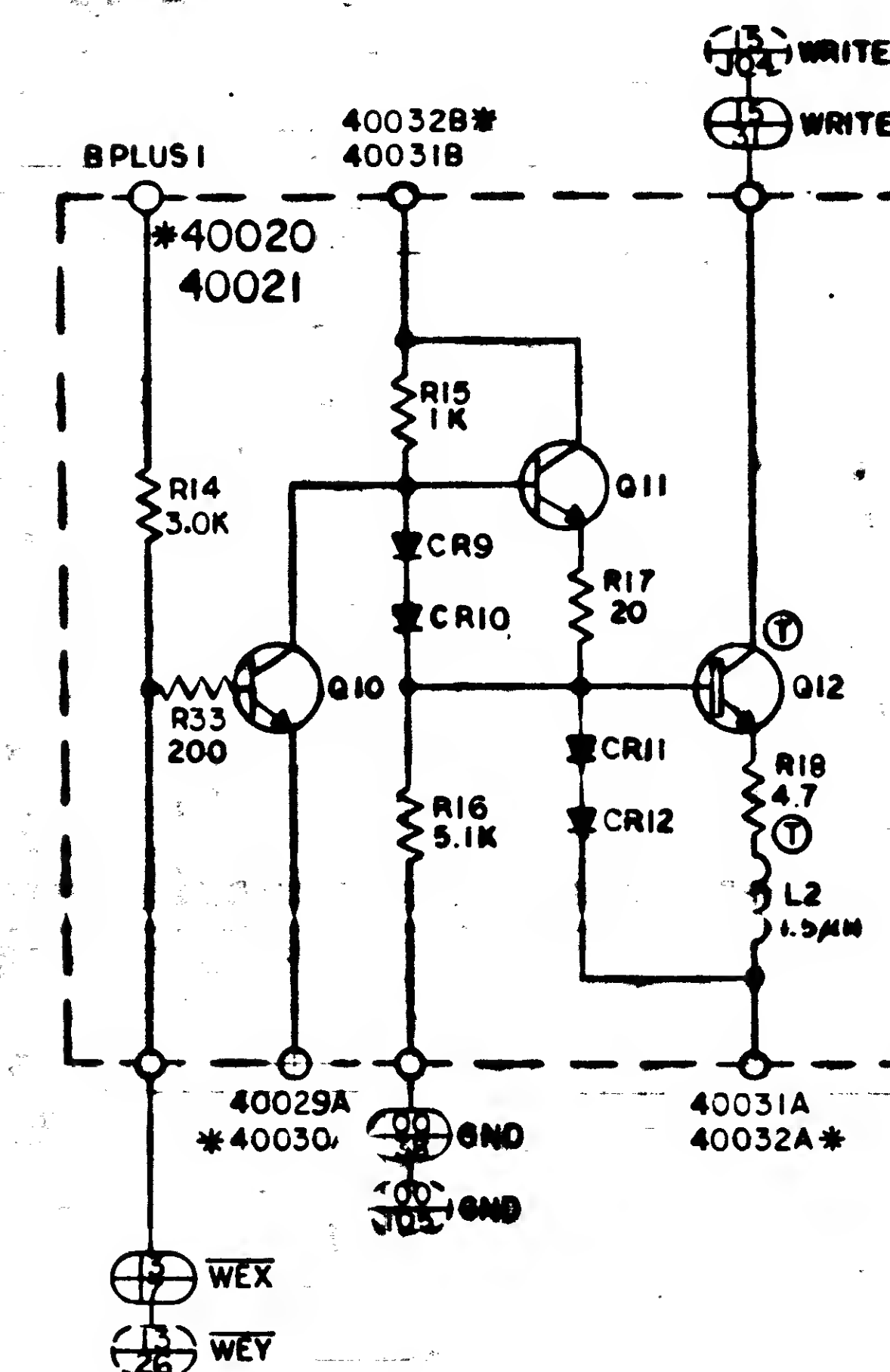
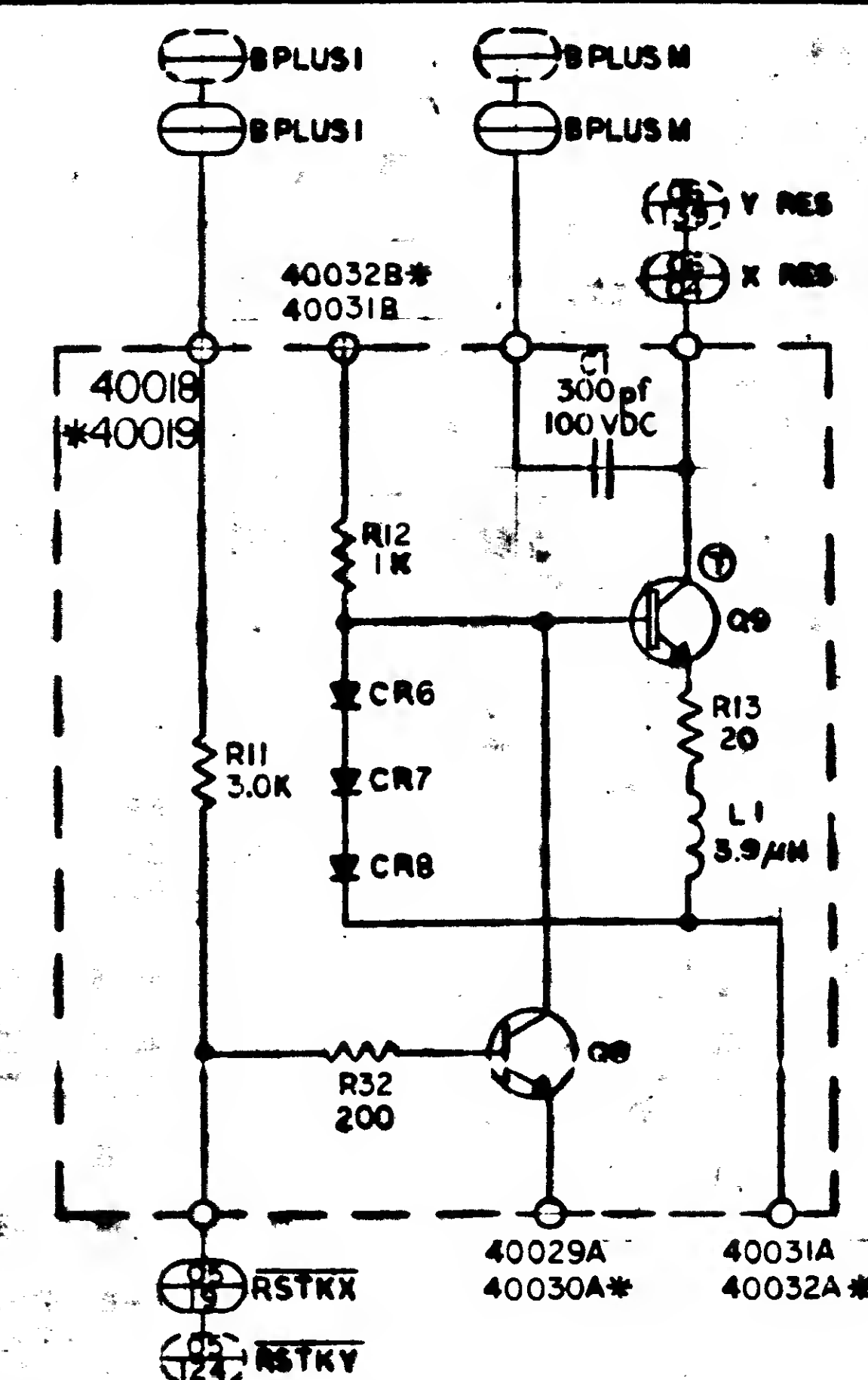
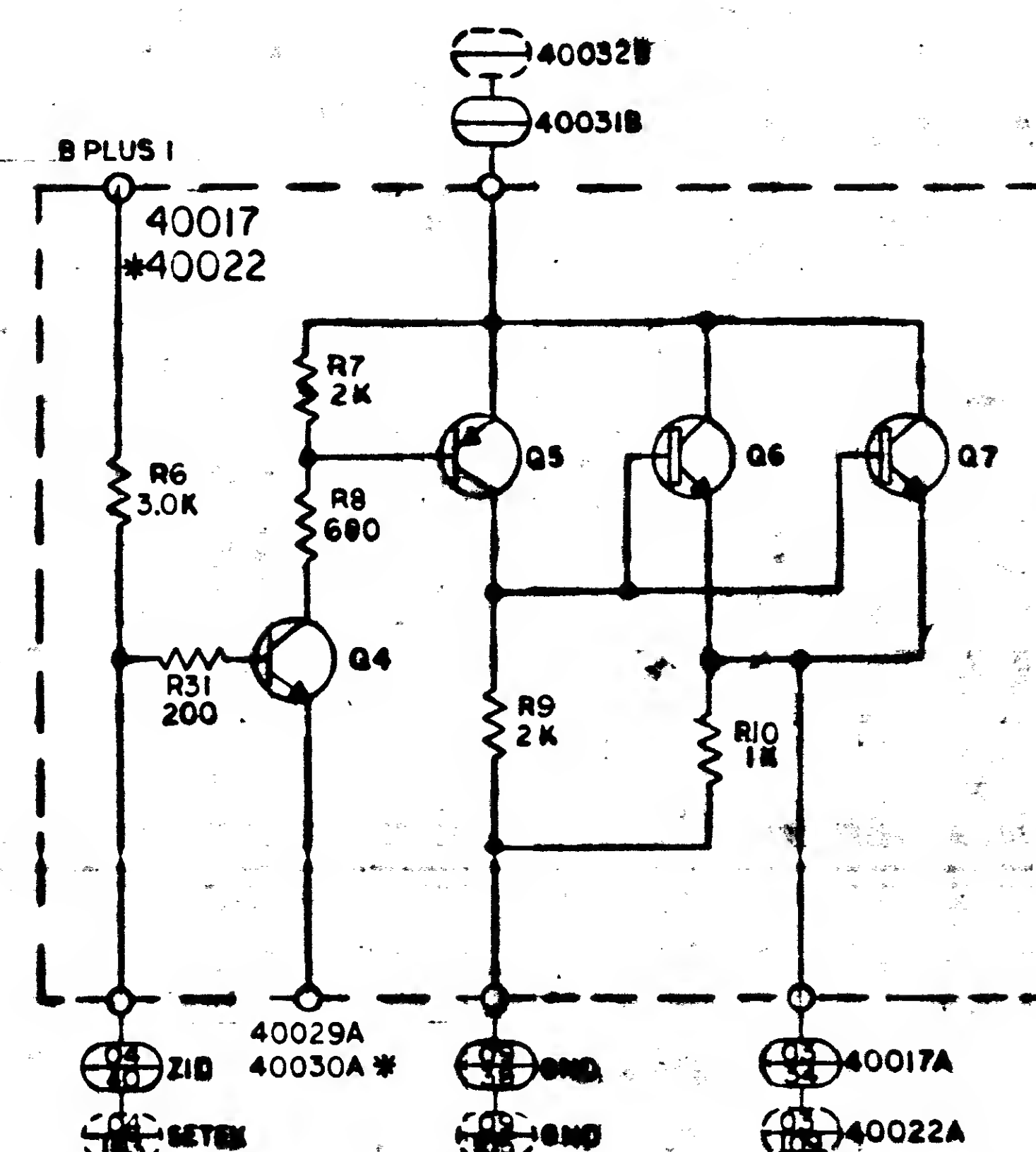
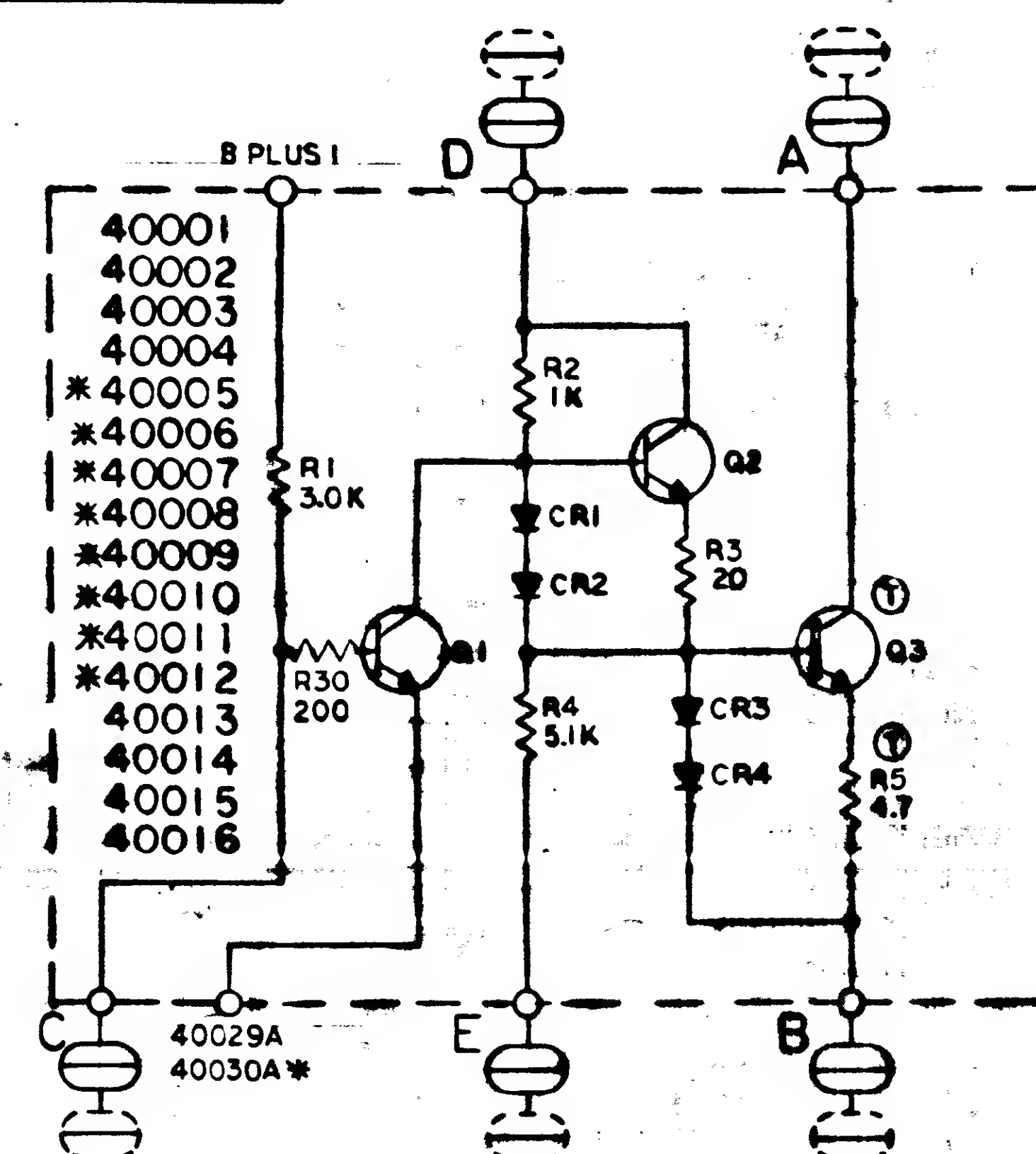
1. INTERPRET DRAWINGS IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. UNLESS OTHERWISE SPECIFIED, RESISTOR VALUES ARE IN OHMS
3. CIRCUIT NUMBERS ON THE SCHEMATIC FOR STICK NO. 2 ARE INDICATED BY AN ASTERISK: *. SIGNAL NAMES AND PIN NUMBERS ON THE SCHEMATIC FOR STICK NO. 2 ARE INDICATED BY THE DOTTED BALLOONS: (---)

REF DES	PART NO.	DESCRIPTION	VALUE	TOL.	RATING	CIRCUIT NO. USED ON	
						STICK NO. 1	STICK NO. 2
CR14	1006751	DIODE				40023	40025
CR15						40023	40025
CR16						40024	40026
CR17						40024	40026
CR18						40027	40028
CR19							
CR20							
CR21							
CR22							
L1	1010406-11	INDUCTOR	3.9MH			40018	40019
L2	-9		1.5MH			40021	40020
L3	-9		1.5MH			40027	40028
Q4	1006752	TRANSISTOR				40017	40022
Q5	1006753						
Q6	1006759						
Q7	1006759						
Q8	1006752					40018	40019
Q9	1006759					40018	40019
Q10	1006752					40021	40020
Q11	1006752						
Q12	1006759						
Q13	1006752					40023	40025
Q14						40024	40026
Q15						40027	40028
Q16							
Q17	1006759						

QTY. REQD.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		FIND NO.
LIST OF MATERIALS				
M I T INSTRUMENTATION LAB CONTRACT NO.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN BY <i>W. J. Brown</i> CHECKED BY <i>W. J. Brown</i> APPROVAL <i>W. J. Brown</i> DATE <i>12-27-63</i>		SCHEMATIC ERASABLE DRIVERS STICK		
NASA APPROVAL <i>W. J. Brown</i> <i>12-27-63</i>		CODE IDENT NO.	SIZE	NASA DRAWING NO.
MIT APPROVAL <i>W. J. Brown</i> <i>12-27-63</i>			E	1006086
SCALE		WT		SHEET OF

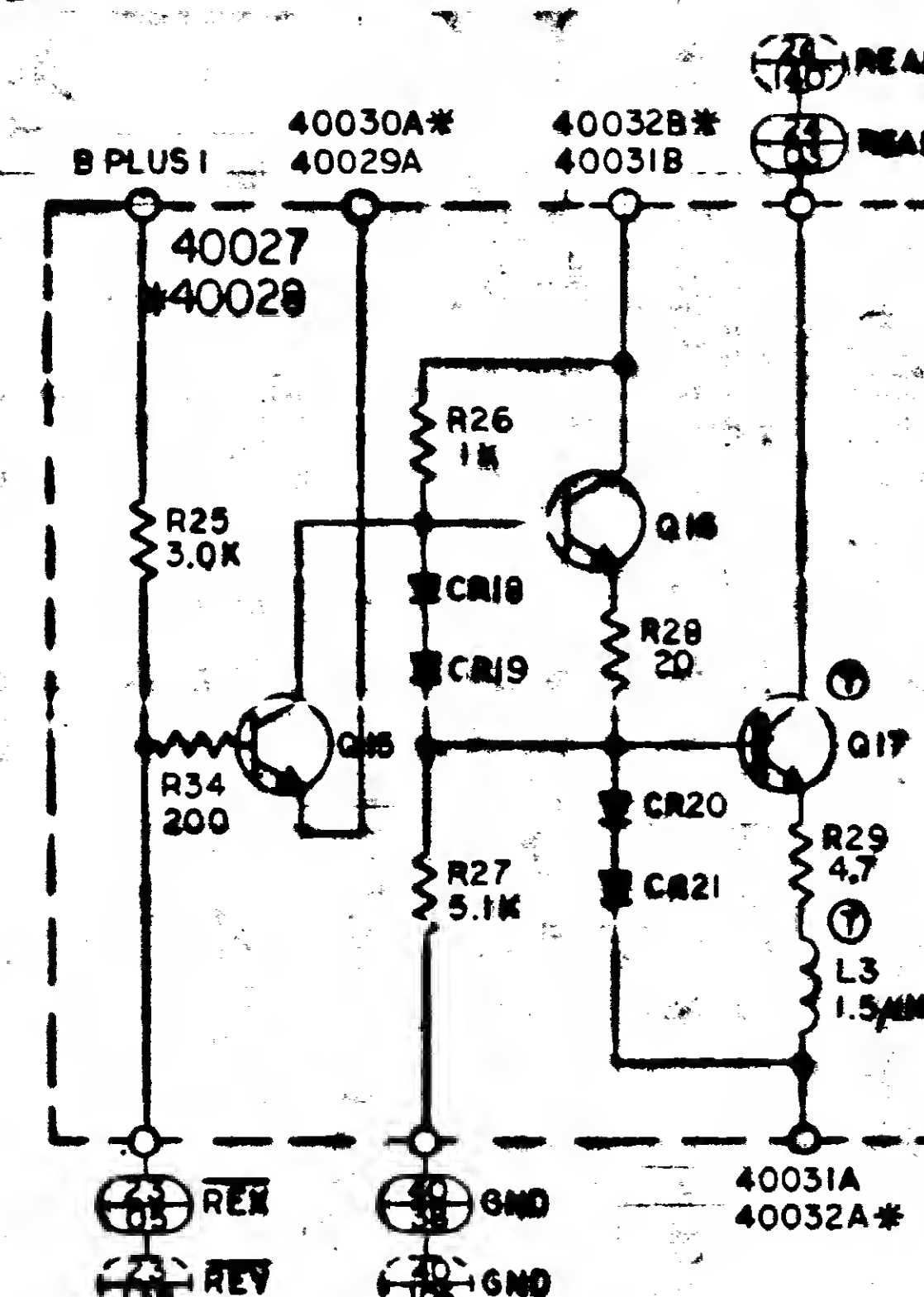
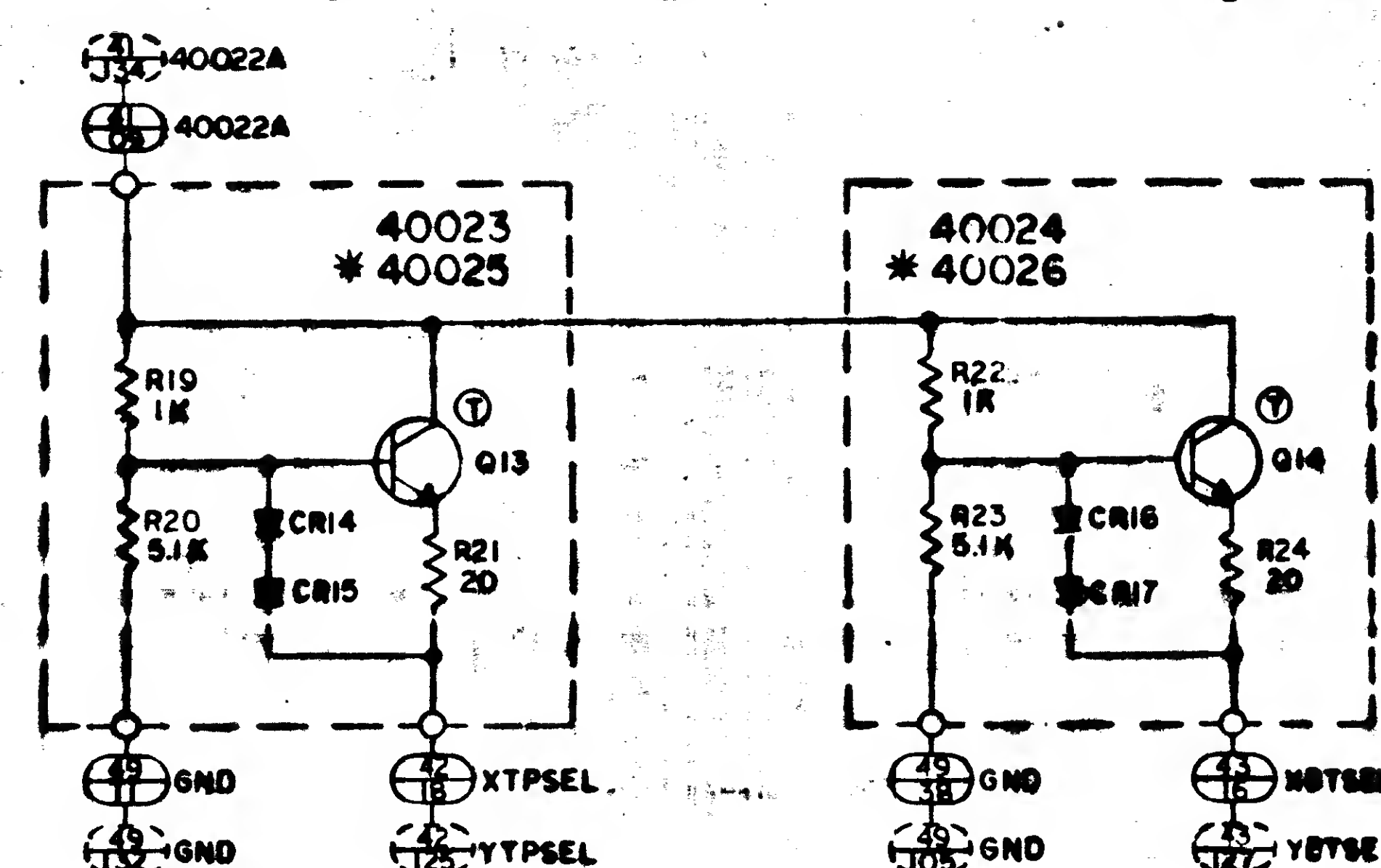
MASTER



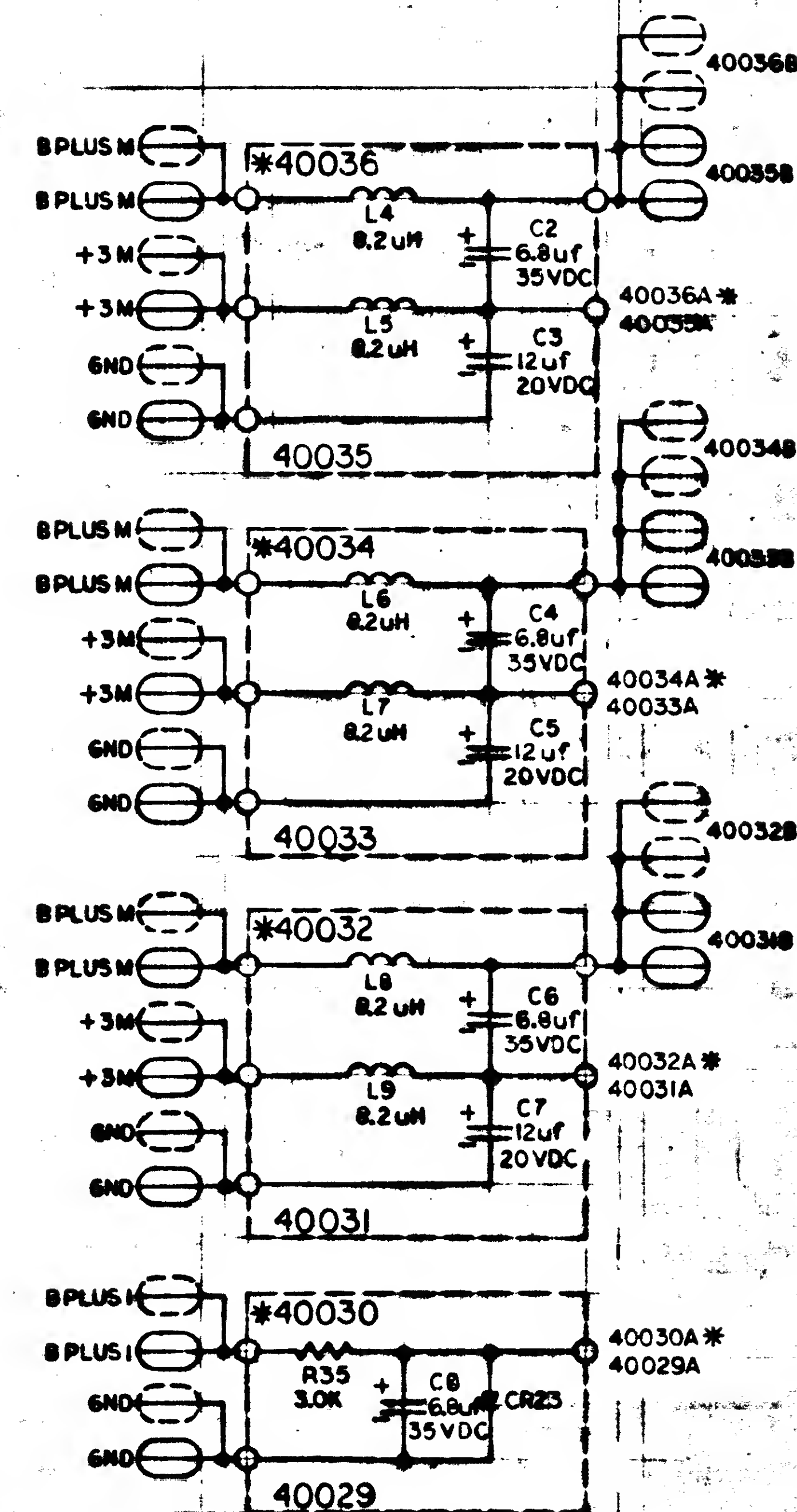


REVISIONS			
SYM	DESCRIPTION	DATE	APPROV
A	REVISED PER TDRR 01250	5/1/63	CH WH
B	REVISED PER TDRR 02051	7/7/63	HH

FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 00691 DATE J-27-6



CIRCUIT NO.	A			B			C			D			E		
	SIGNAL NAME	PIN NO. ASC 4	PIN NO. ASC 5	SIGNAL NAME	PIN NO. ASC 4	PIN NO. ASC 5	SIGNAL NAME	PIN NO. ASC 4	PIN NO. ASC 5	SIGNAL NAME	PIN NO. ASC 4	PIN NO. ASC 5	SIGNAL NAME	PIN NO. ASC 4	PIN NO. ASC 5
* 40005	DBF05	110	24	40036A	84	28	GEM15	100	20	40017A	90	10	GND	80	14
* 40006	DBF06	111	23		84	119	GEM06	101	27	40017A	90		GND	80	
* 40007	DBF07	112	9		85	12	GEM07	102	04	40017A	91		GND	81	
* 40008	DBF08	113	7		85	03	GEM08	103	11	40017A	91		GND	81	
* 40009	DBF09	114	56	40034A	86	60	GEM09	104	52	40017A	92		GND	82	
* 40010	DBF10	115	55		86	51	GEM10	105	59	40017A	92		GND	82	
* 40011	DBF11	116	40		87	44	GEM11	106	35	40017A	93		GND	83	
* 40012	DBF12	117	39		87	35	GEM12	107	43	40017A	93		GND	83	
* 40013	DBF13	118	135	40036A	88	131	GEM13	108	116	40017A	94	133	GND	84	129
40002	DBF02	111	136		84	140	GEM02	101	132	40017A	90		GND	80	
40003	DBF03	112	119		85	115	GEM03	102	123	40017A	91		GND	81	
40004	DBF04	113	120		85	124	GEM04	103	116	40017A	91		GND	81	
40013	DBF13	114	103	40033A	8F	99	GEM13	104	107	40017A	92		GND	82	
40014	DBF14	115	104		86	108	GEM14	105	100	40017A	92		GND	82	
40015	DBF15	116	87		87	83	GEM15	106	91	40017A	93		GND	83	
40016	DBF16	117	98		87	92	GEM16	107	84	40017A	93		GND	83	



REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CIRCUIT NO. USED ON	
						STICK NO. 1	STICK NO. 2
R1	1006750-43	RESISTOR	3.0K		1/4 W		
R2	1006750-32		1K				
R3	1006788-8		20				
R4	1006750-48		5.1K				
R5	1006788-91		4.7				
R30	1006750-15		200				
CR1	1006751	DIODE				40005	40001
CR2						40006	40002
CR3						40007	40003
CR4						40008	40004
CR5						40009	40013
CR6						40010	40014
CR7						40011	40015
CR8						40012	40016
Q1	1006752	TRANSISTOR					
Q2	1006752						
Q3	1006750						
R6	1006750-43	RESISTOR	3.0K		1/4 W	40017	40022
R7	-29		1K				
R8	-28		680				
R9	-30		2K				
R10	-32		1K				
R11	-43		3.0K			40018	40019
R12	-32		1K				
R13	1006788-2		20				
R14	1006750-43		3.0K			40020	40021
R15	-48		5.1K				
R16	-30		2K				
R17	1006750-43		3.0K				
R18	1006750-43		3.0K				
R19	1006750-32		1K			40023	40024
R20	-48		5.1K				
R21	1006750-43		3.0K				
R22	1006750-32		1K			40025	40026
R23	-48		5.1K				
R24	1006750-43		3.0K			40027	40028
R25	1006750-43		3.0K				
R26	-32		1K				
R27	-48		5.1K				
R28	1006750-43		3.0K				
R29	1006750-43		3.0K				
R30	1006750-15		200			40017	40022
R31	-15		200			40018	40019
R32	-15		200			40021	40020
R33	-15		200			40027	40023
R34	-15		200			40028	40024
R35	-43		3.0K				40030
CR6	1006751	DIODE				40018	40019
CR7							
CR8							
CR9						40021	40020
CR10							
CR11							
CR12							
CR13							

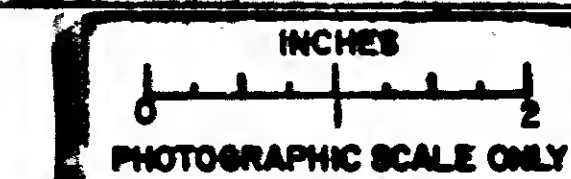
REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CIRCUIT NO. USED ON	
						STICK NO. 1	STICK NO. 2
CR14	1006751	DIODE				40023	40025
CR15						40023	40025
CR16						40024	40026
CR17						40025	40026
CR18						40027	40028
CR19							
CR20							
CR21							
CR22							
CR23							
L1	1010406-11	INDUCTOR				40029	40030
L2	-9					40018	40019
L3	-9					40021	40020
L4	-7					40027	40028
L5	-7					40035	40036
L6	-7					40035	40036
L7	-7					40035	40034
L8	-7					40031	40032
L9	-7					40031	40032
Q4	1006752	TRANSISTOR				40017	40022
Q5	1006753						
Q6	1006759						
Q7	1006758						
Q8	1006756					40018	40019
Q9	1006759					40018	40019
Q10	1006756					40021	40020
Q11	1006752						
Q12	1006759						
Q13	1006752					40023	40025
Q14						40024	40026
Q15						40027	40028
Q16							
Q17	1006759						
C1	1006777-18	CAPACITOR	300pF		100VDC	40018	40019
C2	1006755-79		6.8µF		35VDC	40035	40036
C3	1006755-32		12µF		20VDC	40035	40036
C4	1006755-79		12µF		35VDC	40035	40034
C5	1006755-32		12µF		20VDC	40033	40034
C6	1006755-79		6.8µF		35VDC	40035	40034
C7	1006755-32		12µF		20VDC	40031	40032
C8	1006755-79		6.8µF		35VDC	40029	40030

NOTES

1. INTERPRET DRAWING PER STANDARDS PRESCRIBED BY MIL-D-70327
2. UNLESS OTHERWISE SPECIFIED, RESISTOR VALUES ARE EXPRESSED IN OHMS
3. CIRCUIT NUMBERS, PIN NUMBERS AND SIGNAL NAMES ON THE SCHEMATIC FOR STICK NO. 2 ARE INDICATED BY AN ASTERISK (*) OR BY DOTTED BALLOONS ()

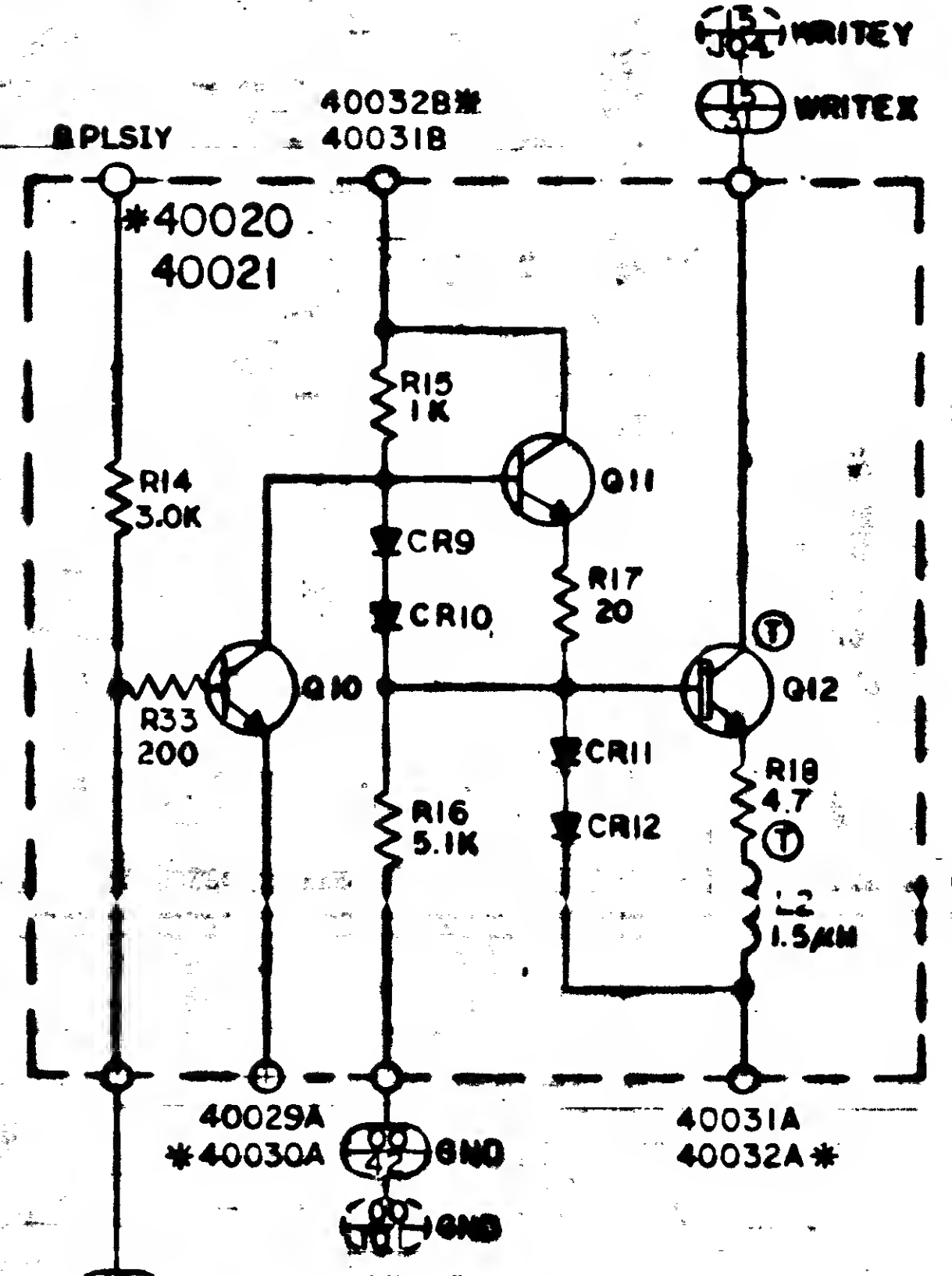
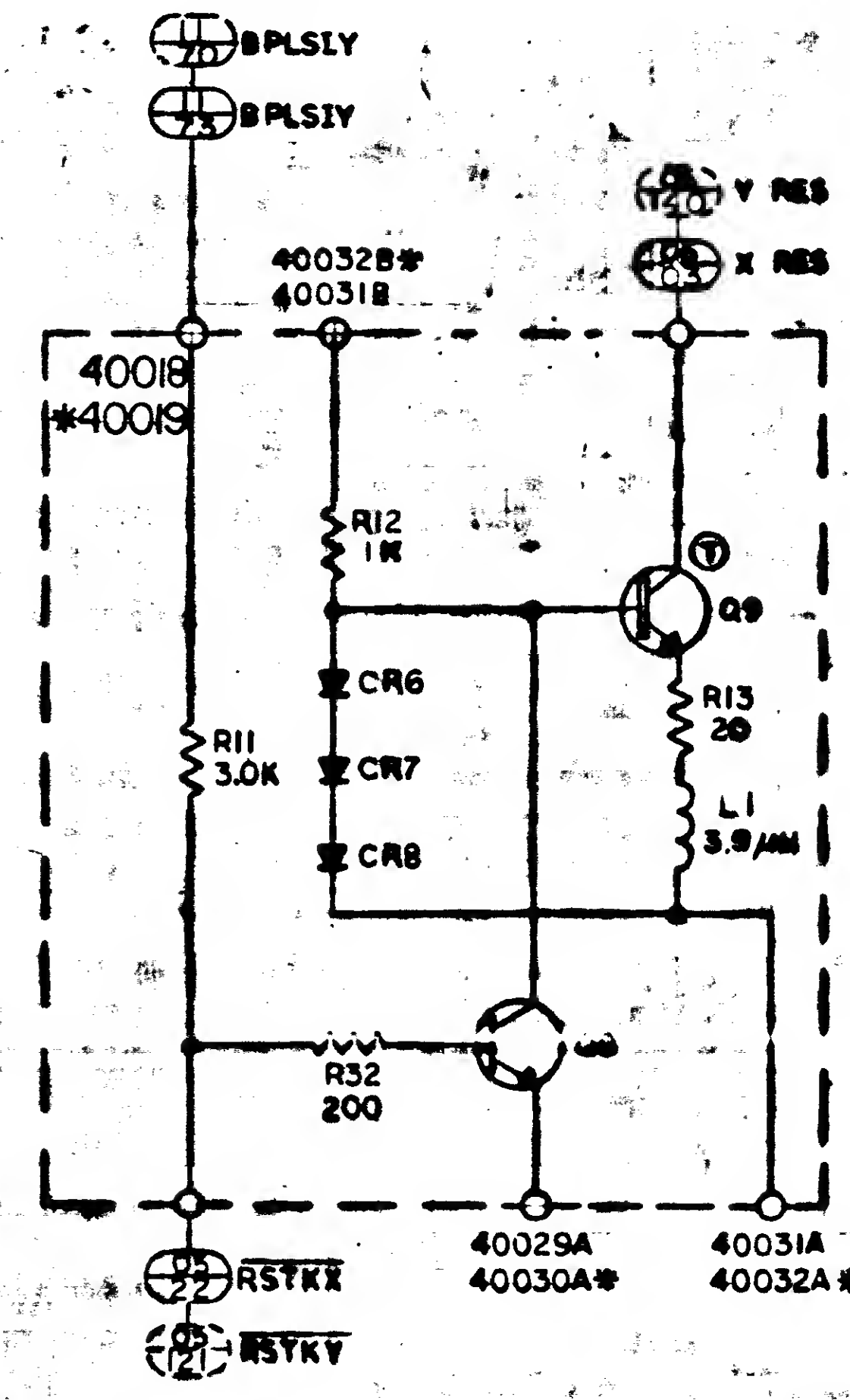
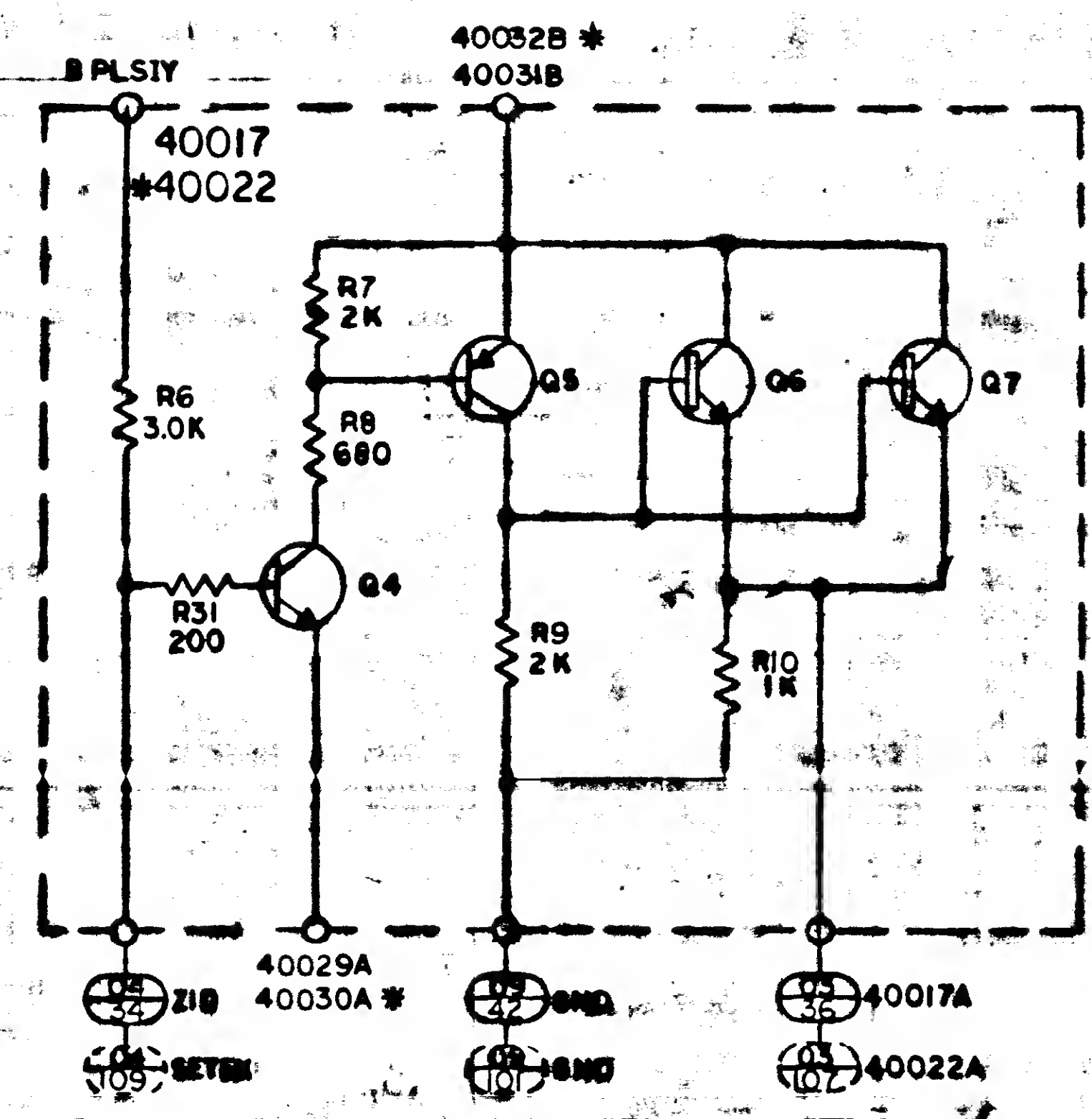
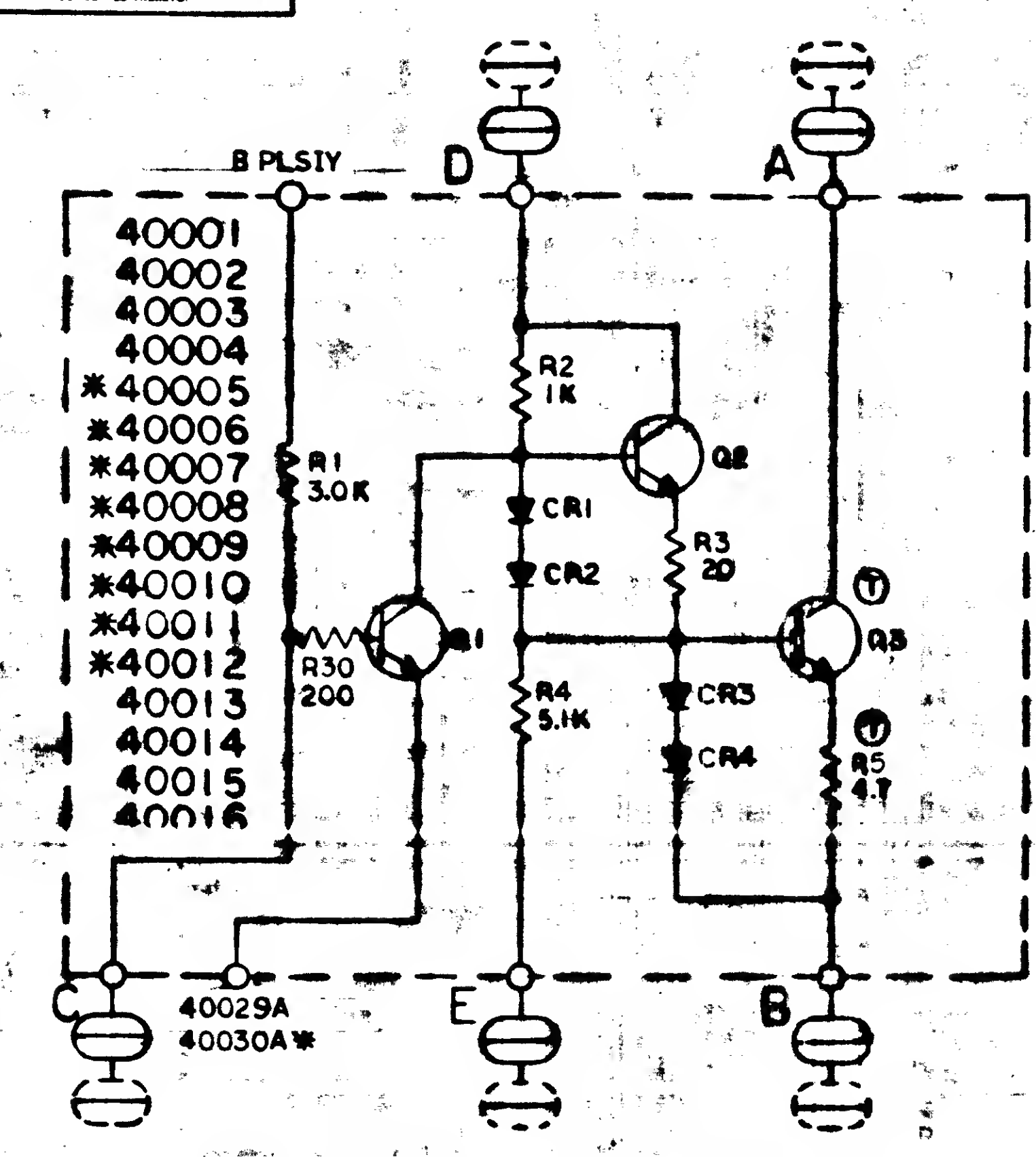
MASTER

QTY	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
LIST OF MATERIALS		
CITY INSTRUMENTATION LAB CAMBRIDGE MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS
DATE MAR 26 1968	DATE 3/20/68	
CHECKED W. J. R. 3/26/68	CHECKED W. J. R. 3/26/68	
APPROVAL W. J. R. 3/26/68	APPROVAL W. J. R. 3/26/68	
NASA APPROVAL W. J. R. 3/26/68		CODE IDENT NO E
MIT APPROVAL W. J. R. 3/26/68		SIZE 1006086
		NASA DRAWING NO

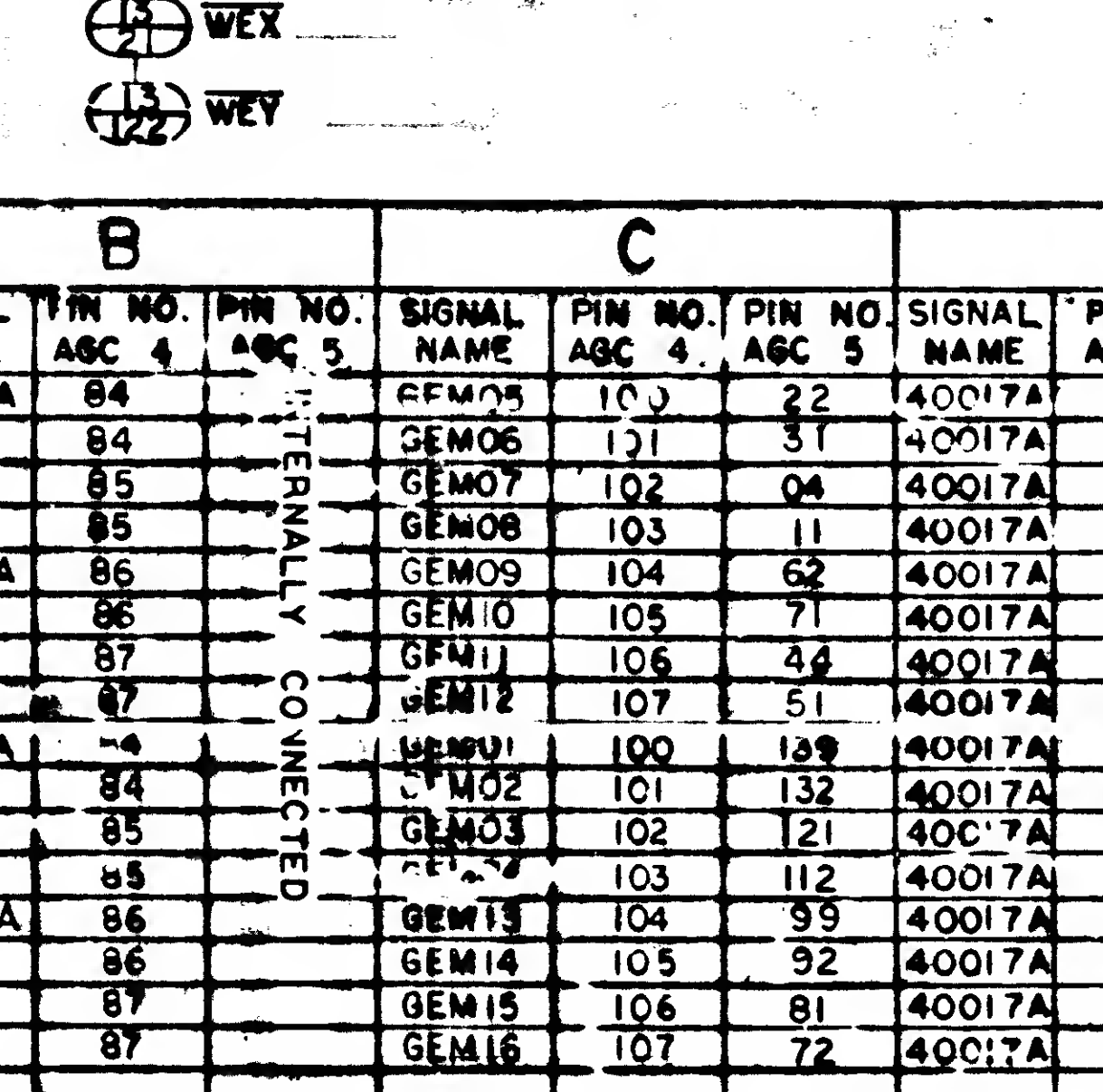
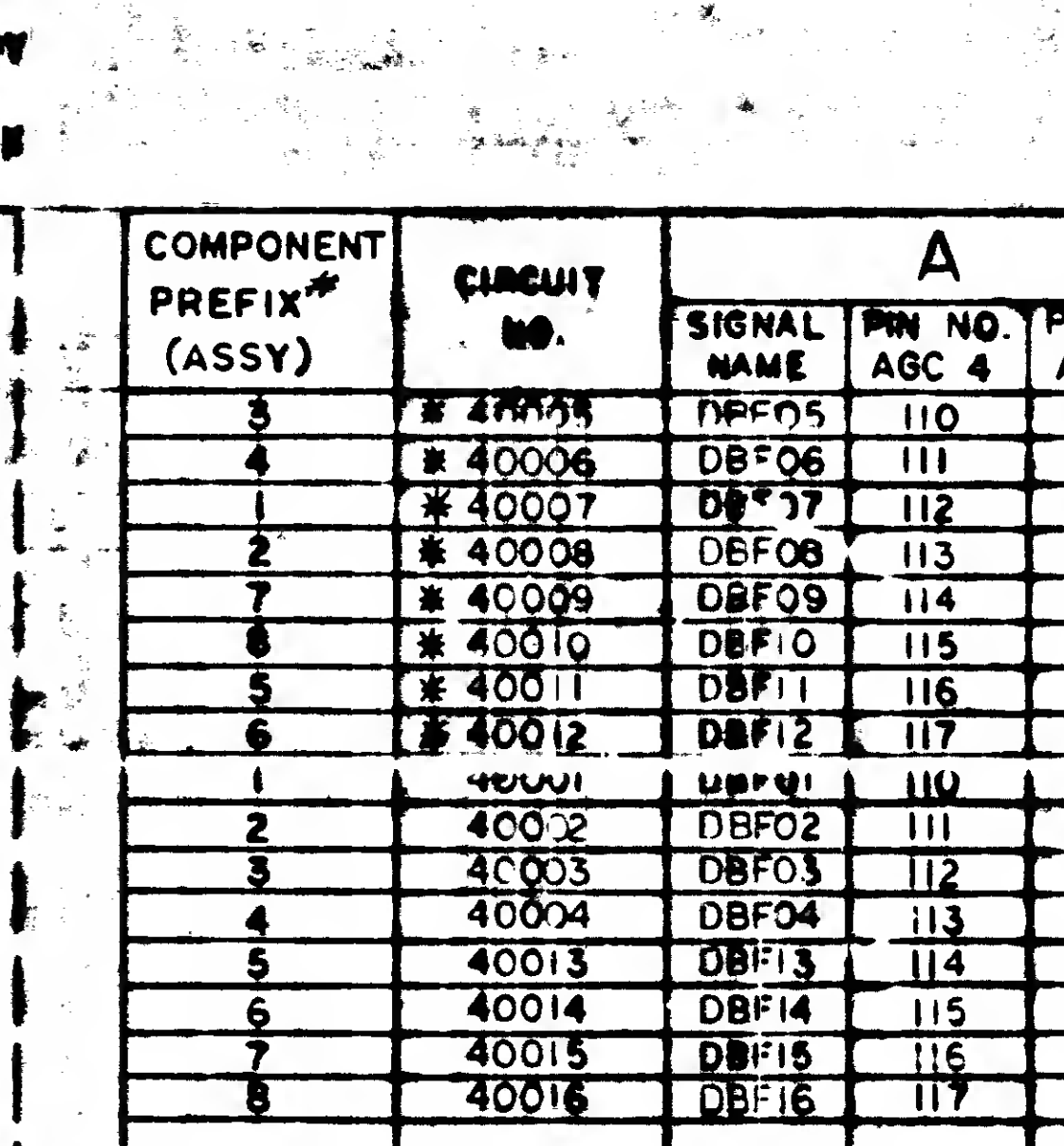
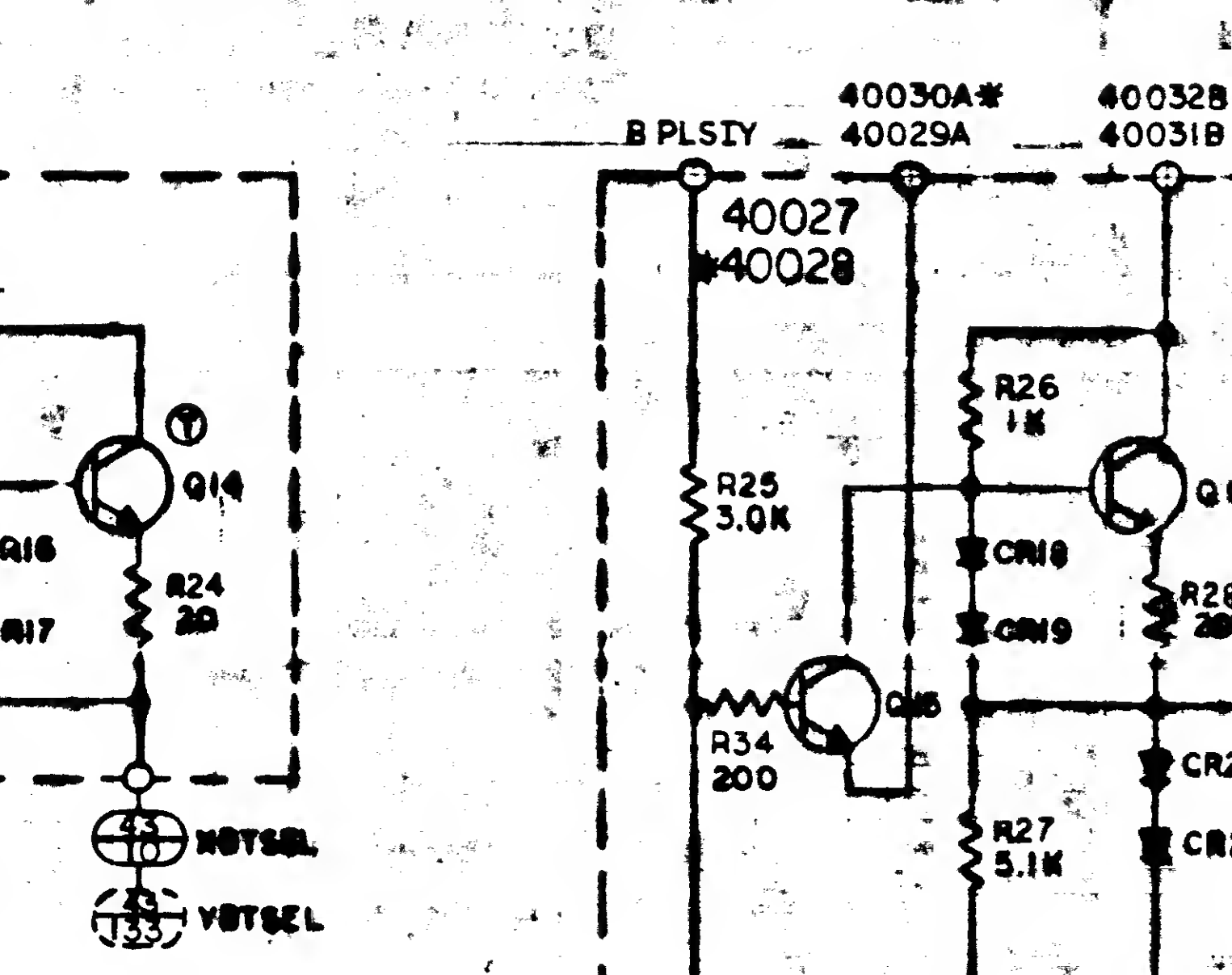
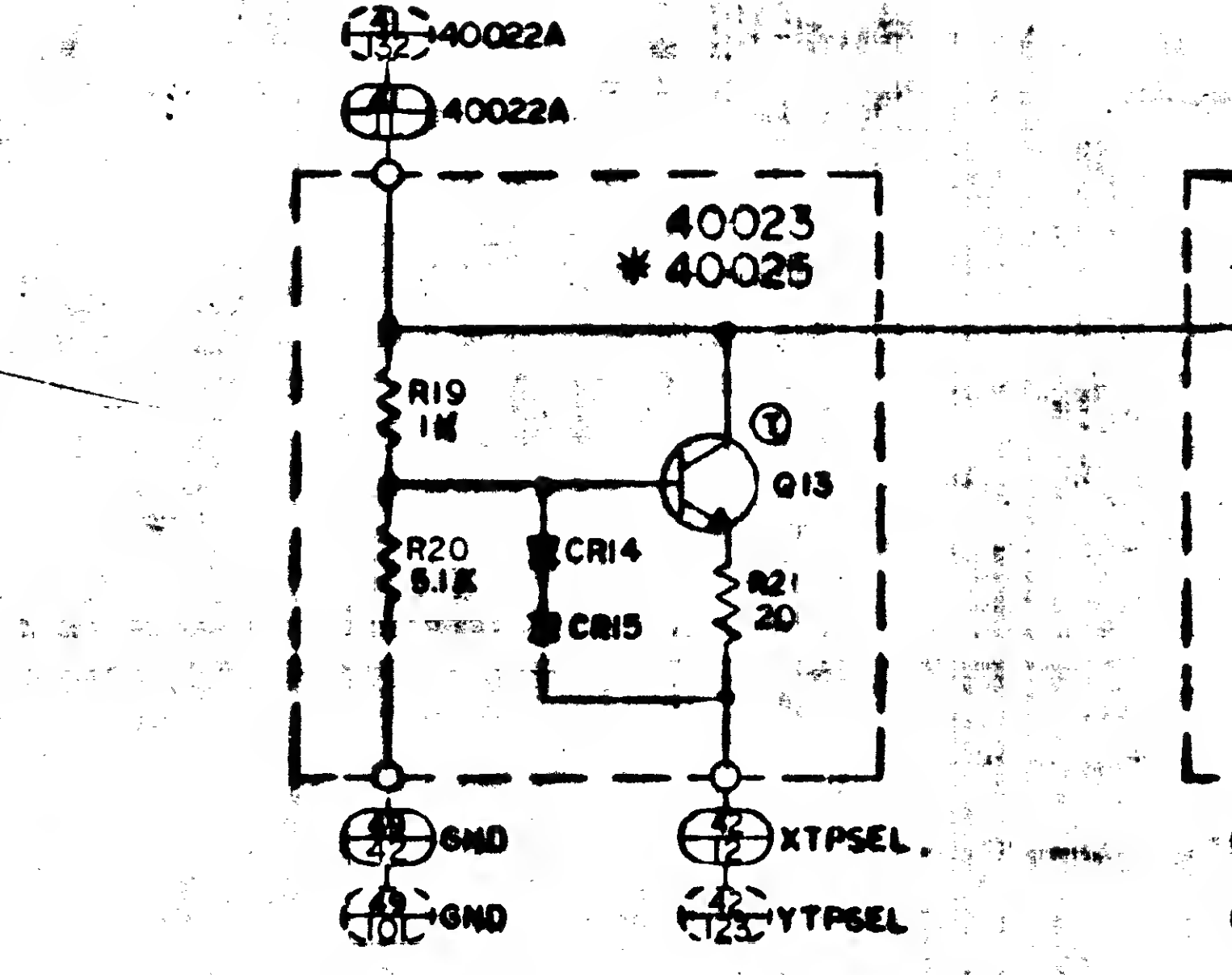


REVISIONS

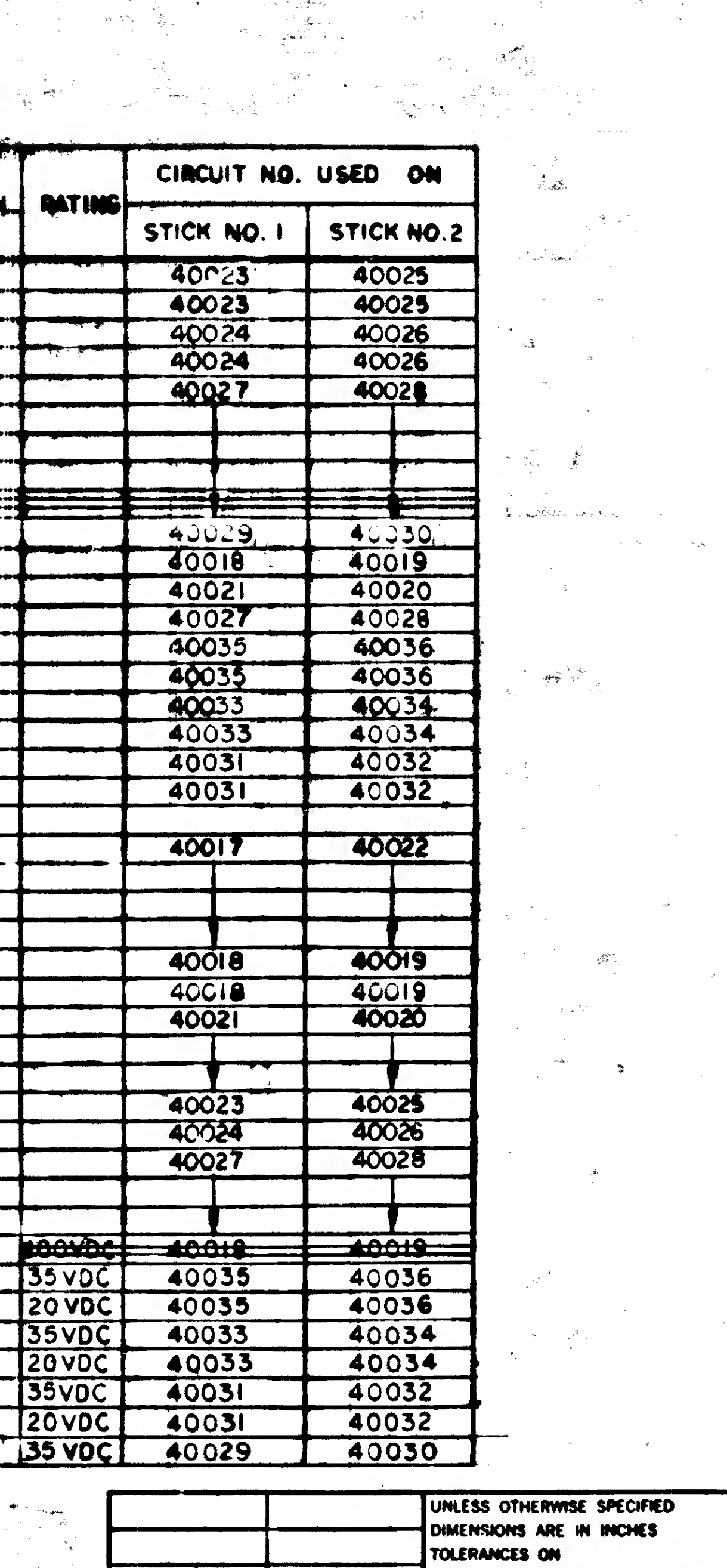
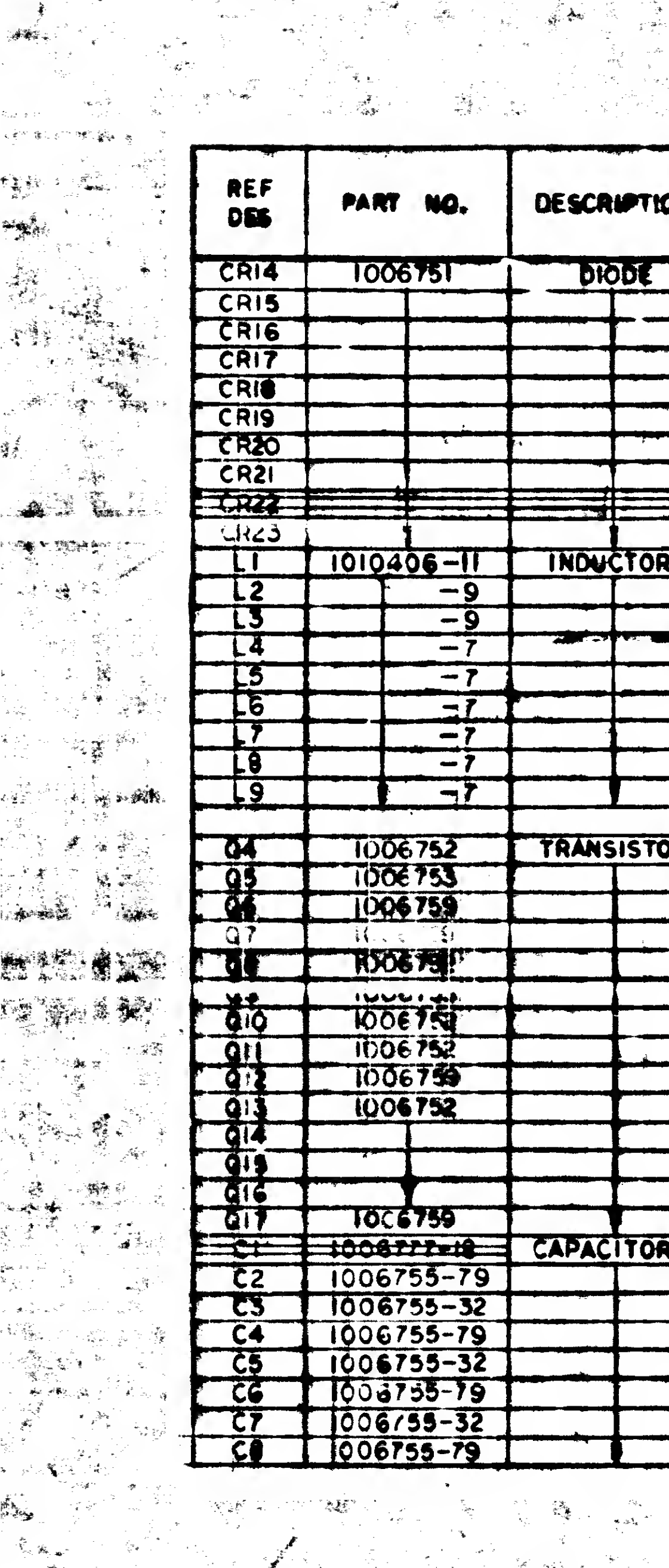
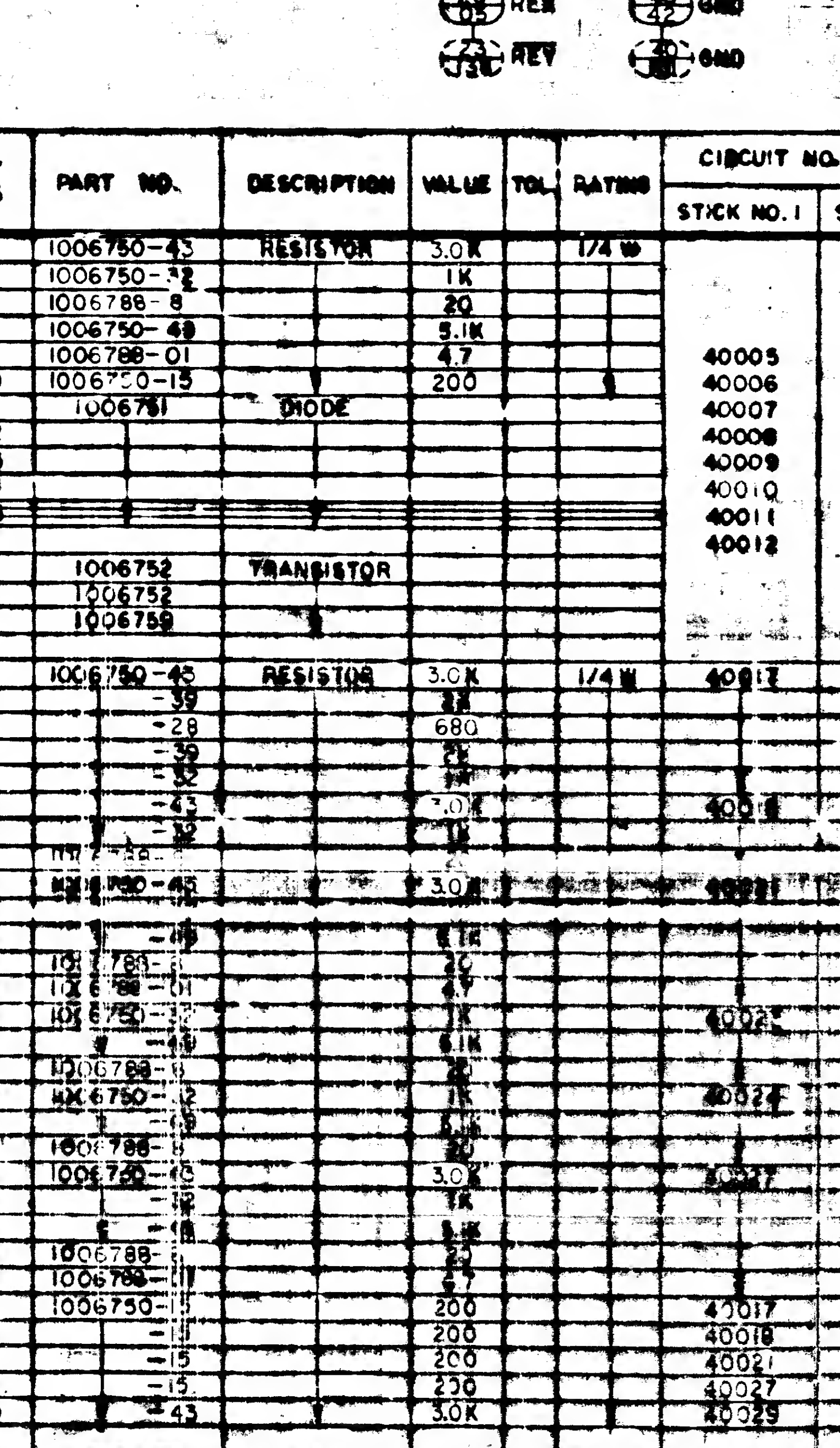
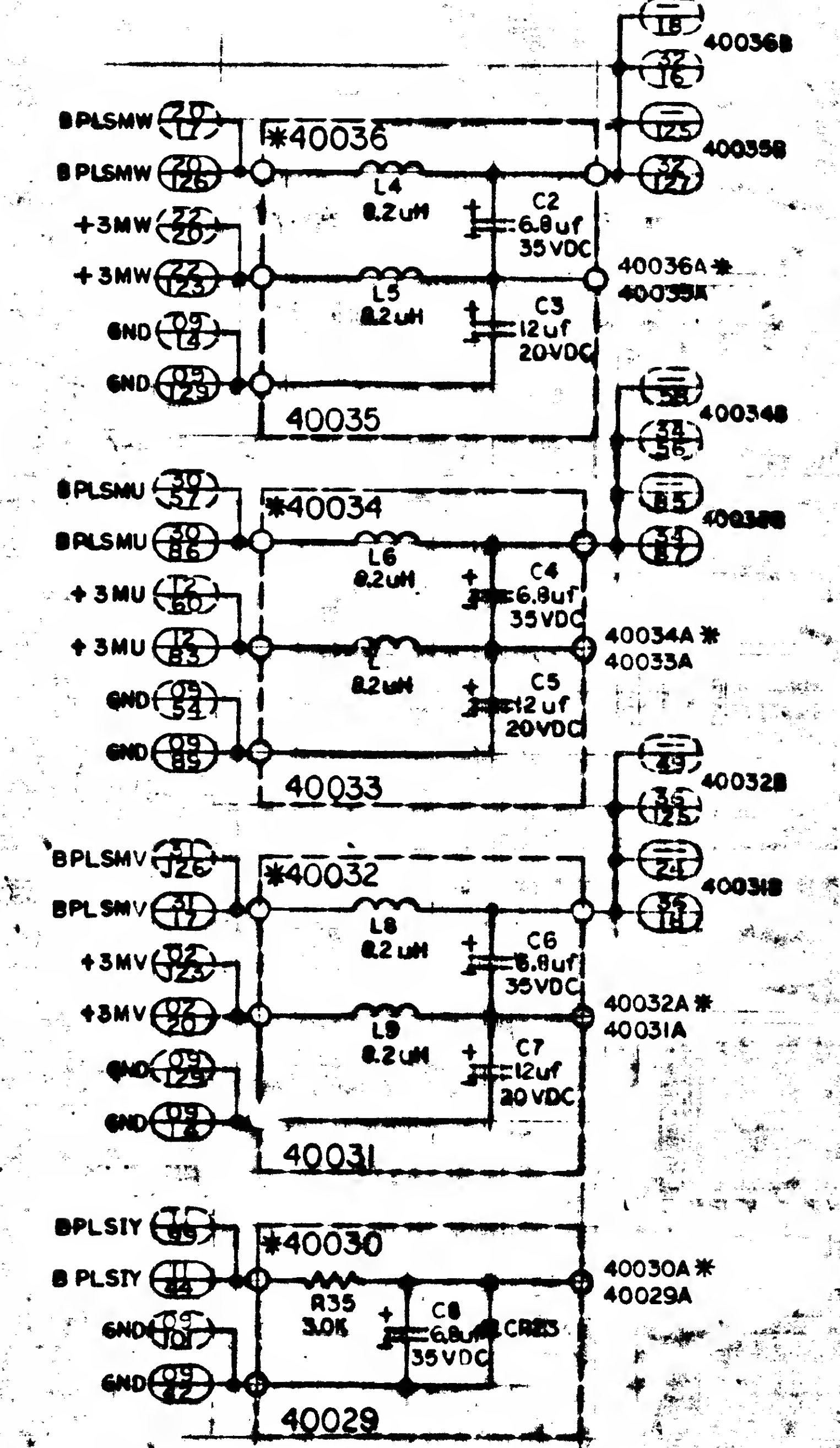
REV	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TORR 3/2/68	3/1/68	CH W
B	REVISED PER TORR 04/05/68	4/1/68	CH W
C	REVISED PER TORR 04/23/68	4/23/68	CH W

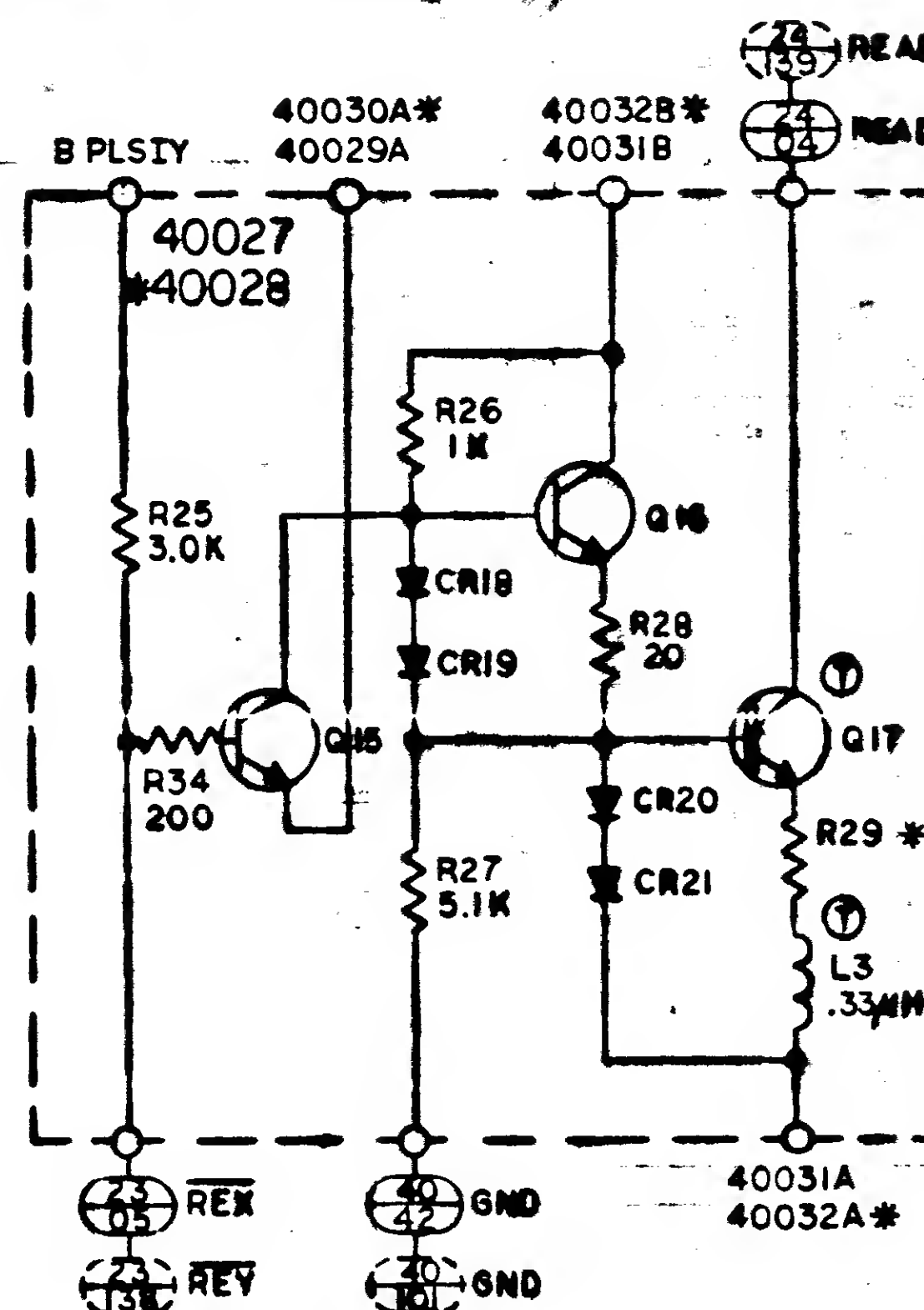
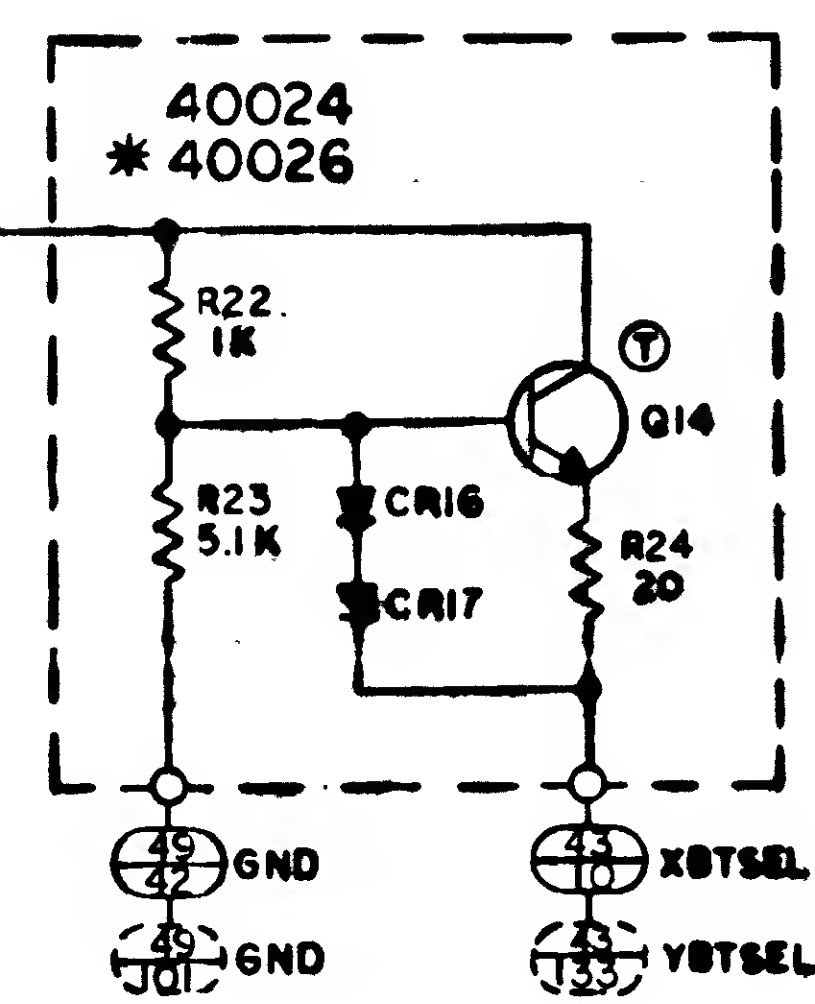
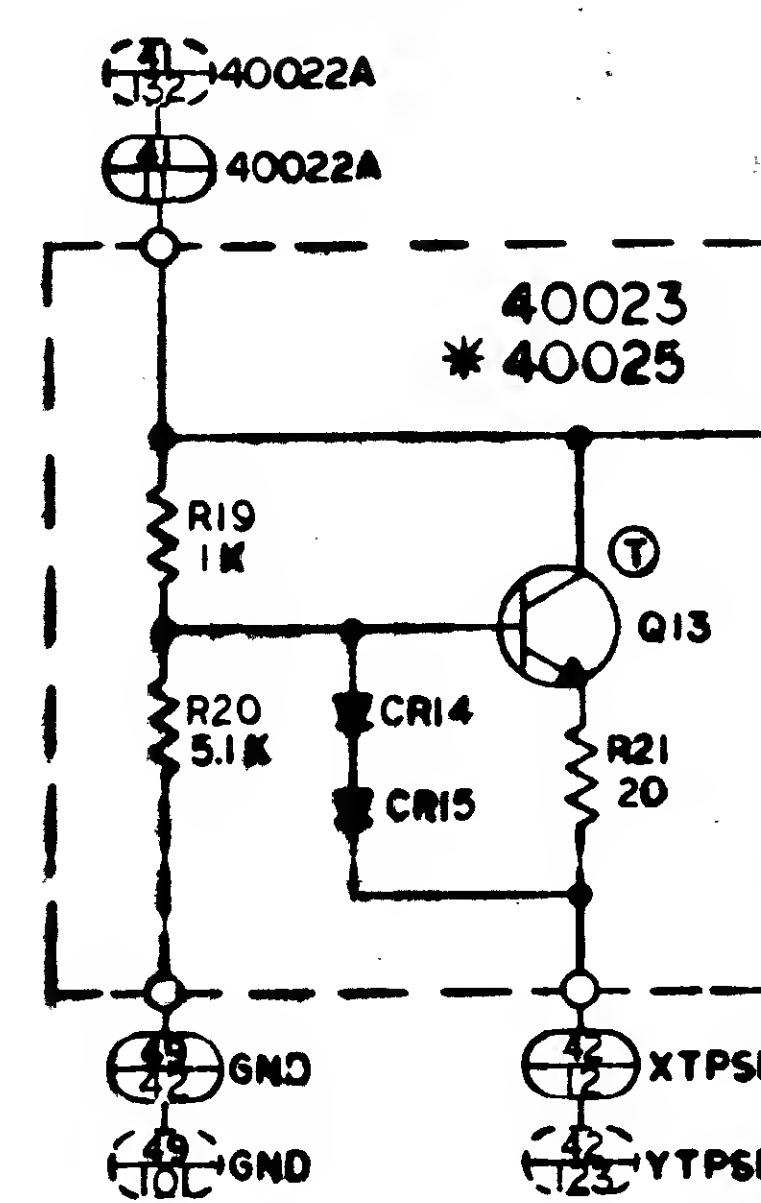
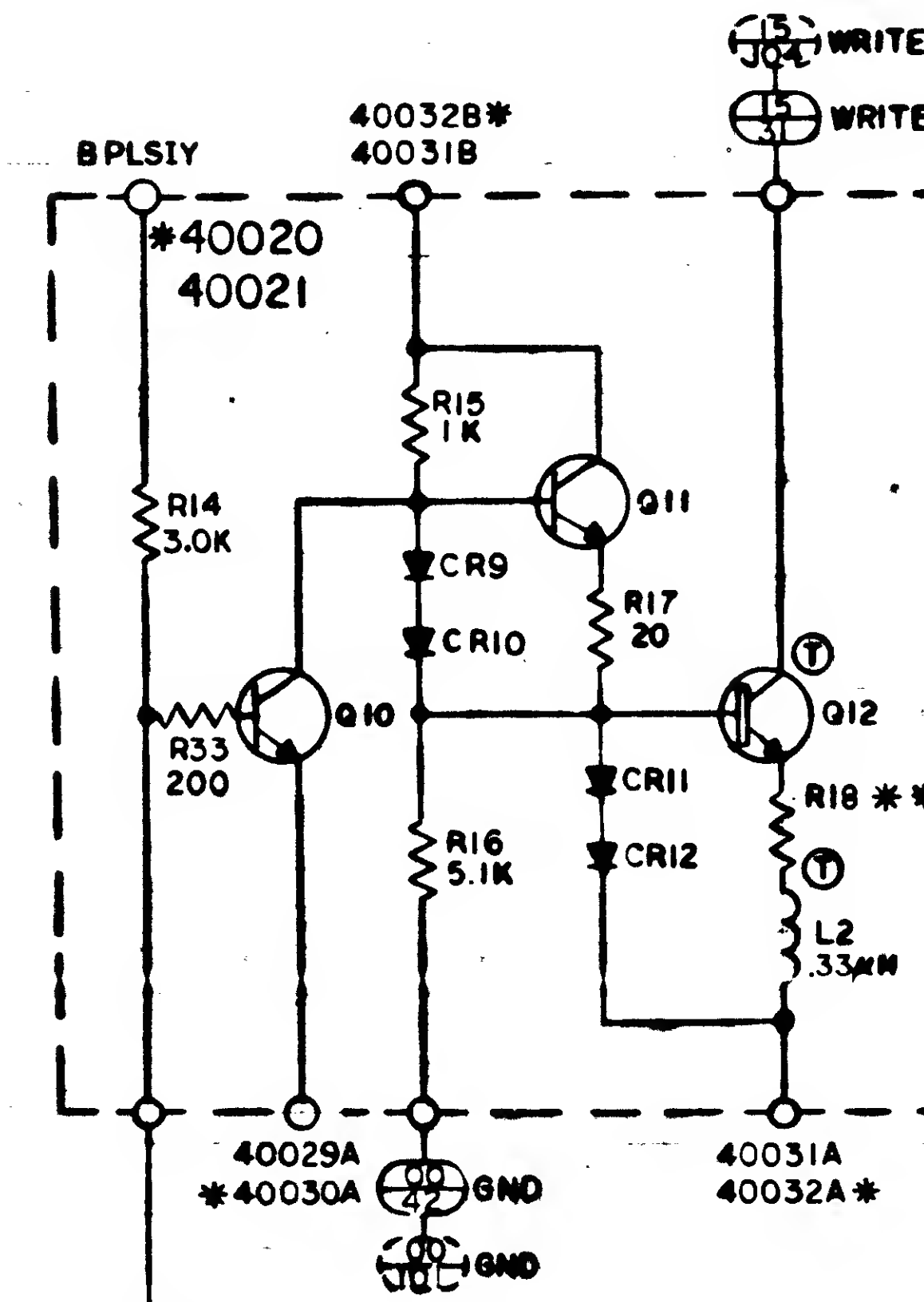
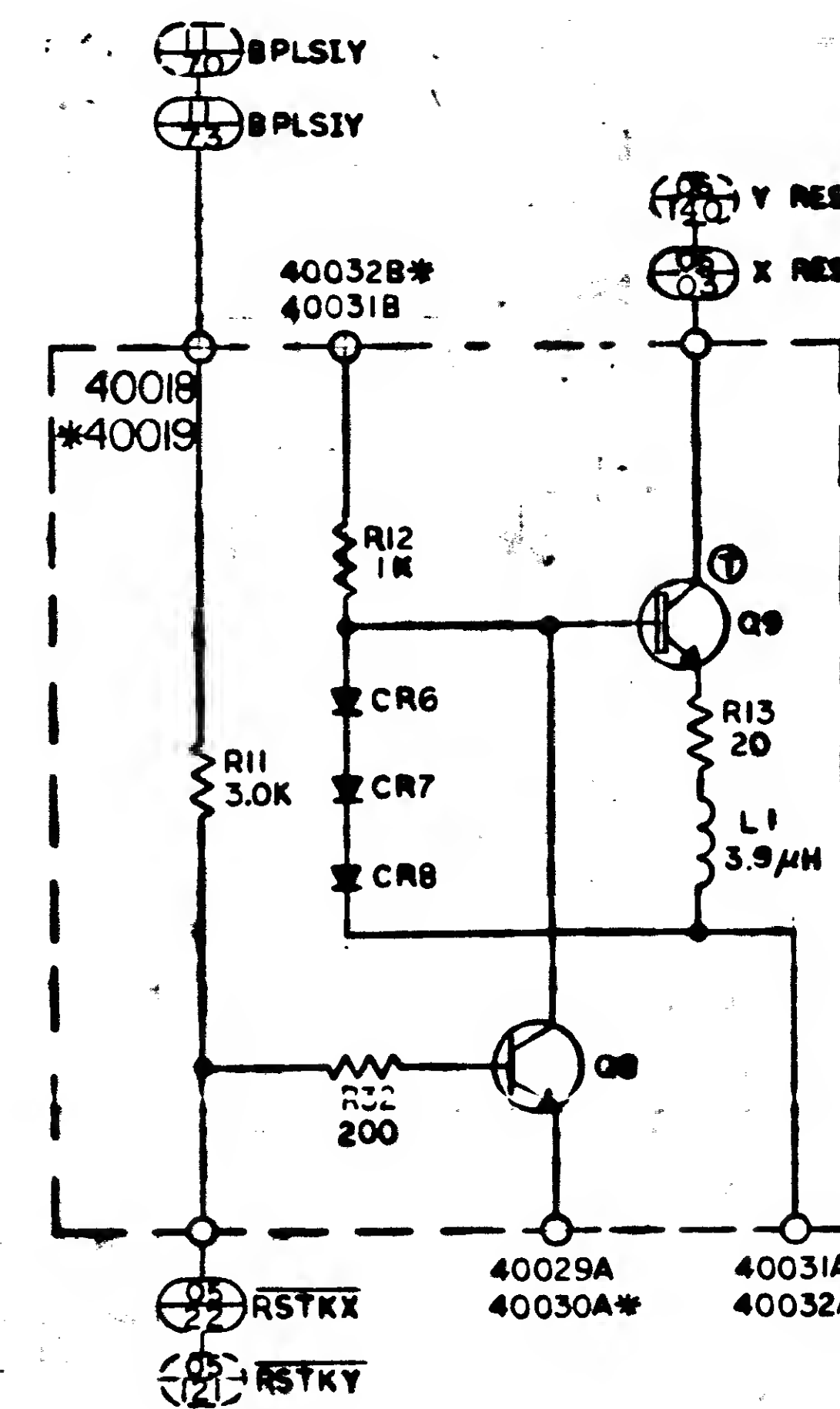
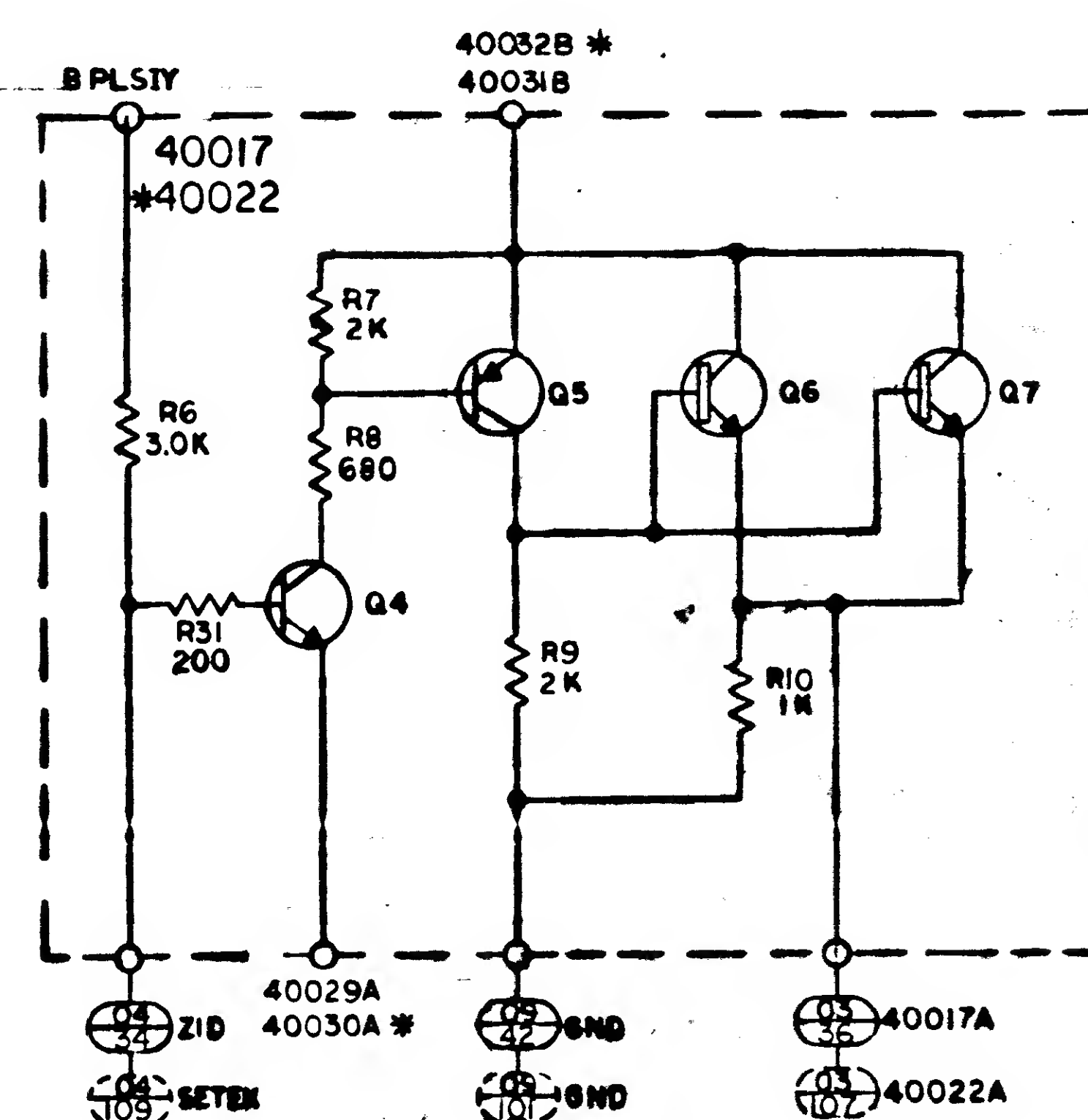
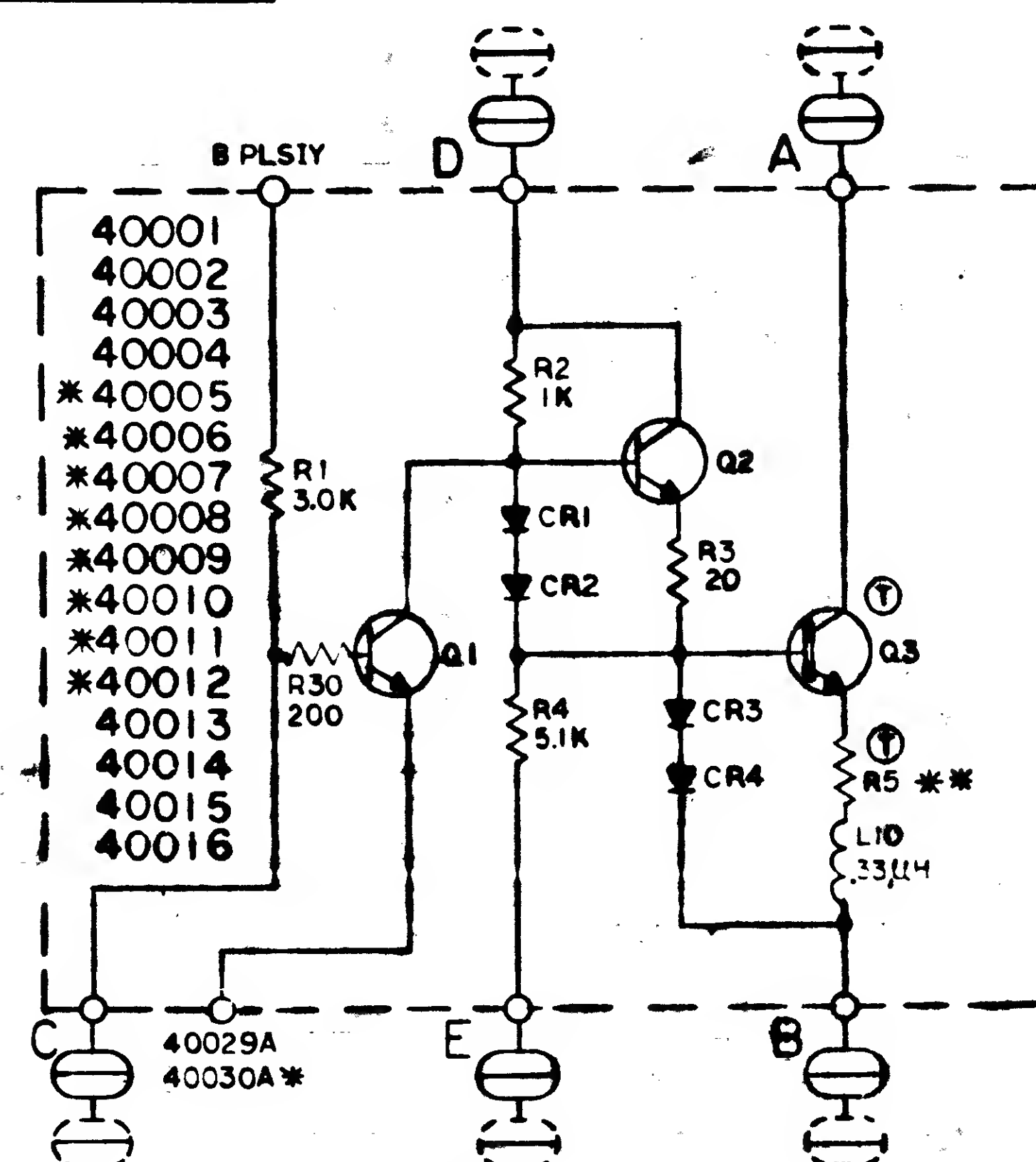


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CLASS B RELEASE TDR No. 00697 DATE 3-9-63

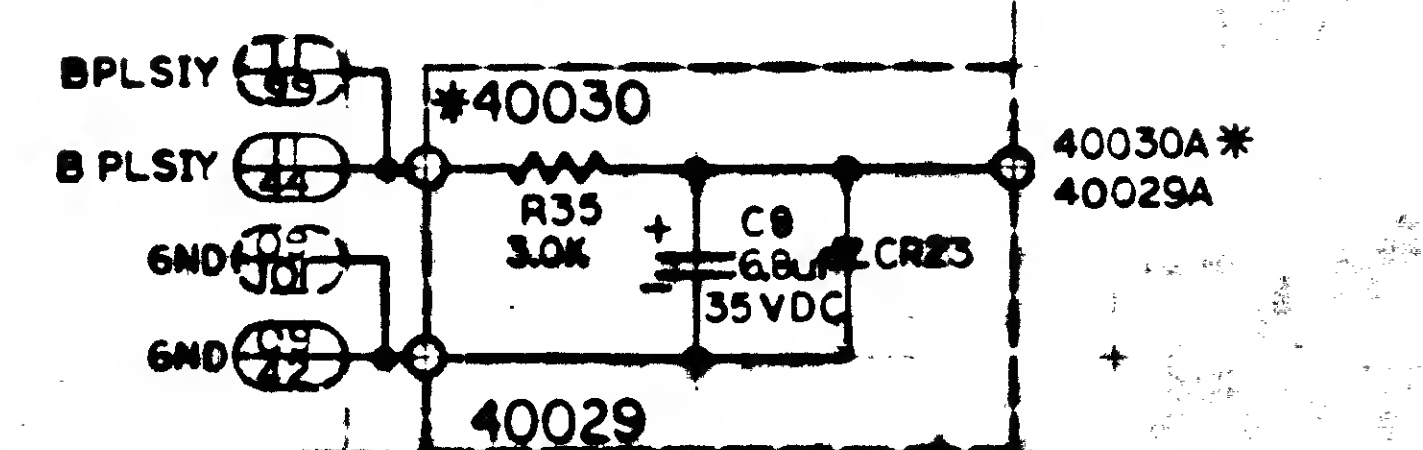
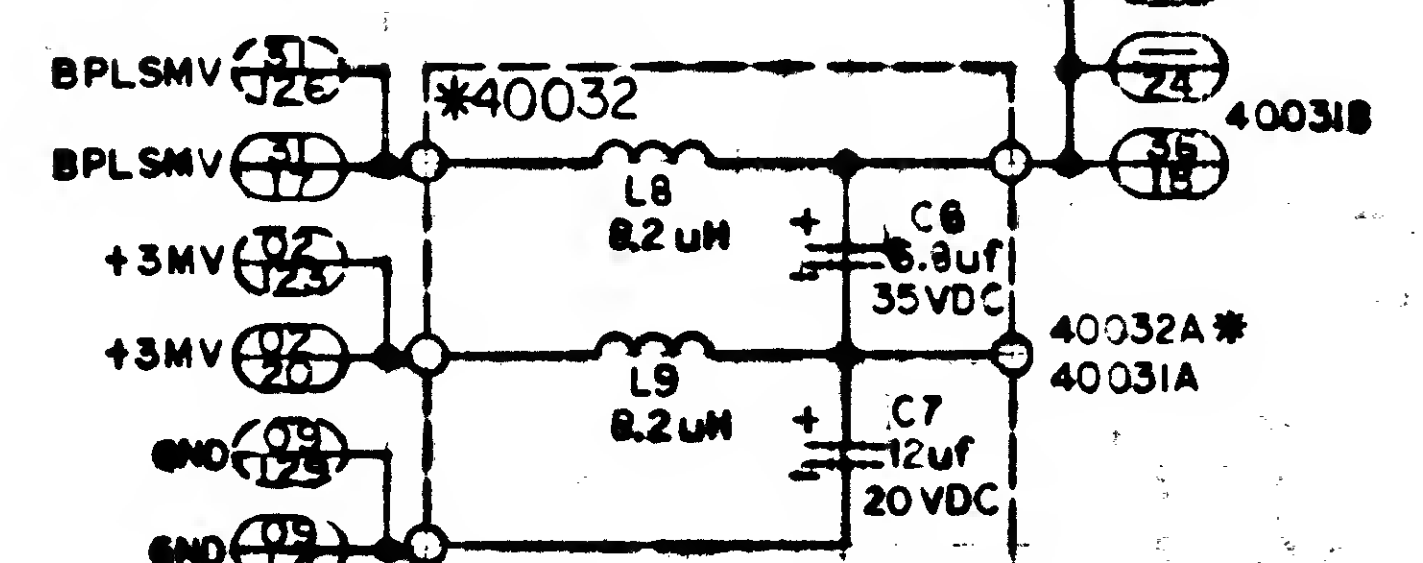
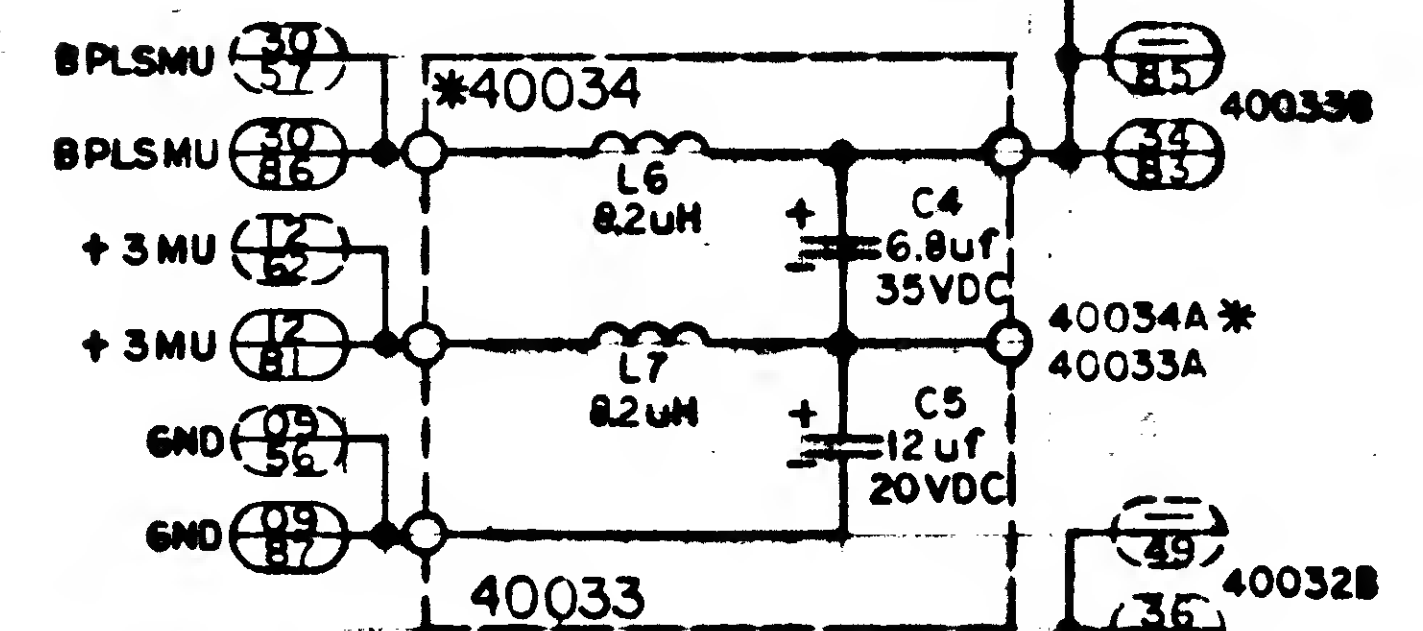
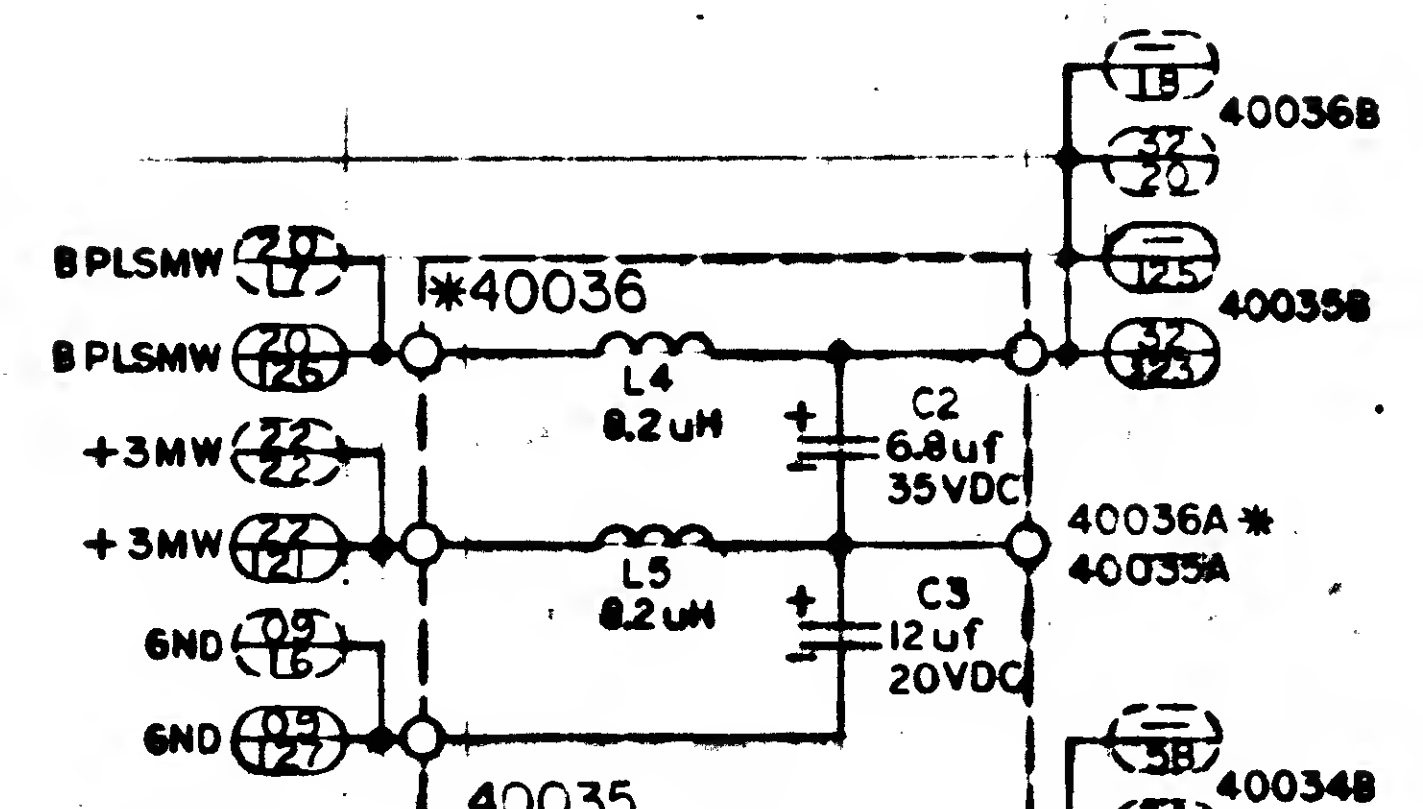


COMPONENT PREFIX (ASSY)	CIRCUIT NO.	SIGNAL NAME	PIN NO. ABC 4	PIN NO. ABC 5	SIGNAL NAME	PIN NO. ABC 4	PIN NO. ABC 5	SIGNAL NAME	PIN NO. ABC 4	PIN NO. ABC 5	SIGNAL NAME	PIN NO. ABC 4	PIN NO. ABC 5	SIGNAL NAME	PIN NO. ABC 4	PIN NO. ABC 5
4	40001	DF05	110	28	40036A	84	85	40001	100	129	40017A	90	37	40001	100	129
4	40002	DF06	111	27	40036A	84	85	40002	101	132	40017A	90	37	40002	101	132
4	40003	DF07	112	26	40036A	84	85	40003	102	131	40017A	90	37	40003	102	131
4	40004	DF08	113	25	40036A	84	85	40004	103	130	40017A	90	37	40004	103	130
4	40005	DF09	114	24	40036A	84	85	40005	104	129	40017A	90	37	40005	104	129
4	40006	DF10	115	23	40036A	84	85	40006	105	128	40017A	90	37	40006	105	128
4	40007	DF11	116	22	40036A	84	85	40007	106	127	40017A	90	37	40007	106	127
4	40008	DF12	117	21	40036A	84	85	40008	107	126	40017A	90	37	40008	107	126
4	40009	DF13	118	20	40036A	84	85	40009	108	125	40017A	90	37	40009	108	125
4	40010	DF14	119	19	40036A	84	85	40010	109	124	40017A	90	37	40010	109	124
4	40011	DF15	120	18	40036A	84	85	40011	110	123	40017A	90	37	40011	110	123
4	40012	DF16	121	17	40036A	84	85	40012	111	122	40017A	90	37	40012	111	122
4	40013	DF17	122	16	40036A	84	85	40013	112	121	40017A	90	37	40013	112	121
4	40014	DF18	123	15	40036A	84	85	40014	113	120	40017A	90	37	40014	113	120
4	40015	DF19	124	14	40036A	84	85	40015	114	119	40017A	90	37	40015	114	119
4	40016	DF20	125	13	40036A	84	85	40016	115	118	40017A	90	37	40016	115	118





COMPONENT PREFIX (ASSY)	CIRCUIT NO.	A			B			C			D			E		
		SIGNAL NAME	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL NAME	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL NAME	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL NAME	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL NAME	PIN NO. AGC 4	PIN NO. AGC 5
3	* 40005	DBF05	110	28	40035A	84		GEM05	100	26	40017A	90	3.7	GND	80	52
4	* 40006	DBF06	111	25		84		GEM06	101	27	40017A	90		GND	80	
1	* 40007	DBF07	112	8		85		GEM07	102	06	40017A	91		GND	81	
2	* 40008	DBF08	113	7		85		GEM08	103	09	40017A	91		GND	81	
7	* 40009	DBF09	114	68	40034A	86		GEM09	104	66	40017A	92		GND	88	
4	* 40010	DBF10	115	65		86		GEM10	105	67	40017A	92		GND	88	
5	* 40011	DBF11	116	50		87		GEM11	106	48	40017A	93		GND	89	
1	* 40012	DBF12	117	47		87		GEM12	107	49	40017A	93		GND	89	
1	* 40001	DBF01	110	135	40035A	84		GEM01	100	137	40017A	90	106	GND	80	91
2	* 40002	DBF02	111	136		84		GEM02	101	134	40017A	90		GND	80	
3	* 40003	DBF03	112	115		85		GEM03	102	117	40017A	91		GND	81	
4	* 40004	DBF04	113	118		85		GEM04	103	116	40017A	91		GND	81	
5	* 40013	DBF13	114	93	40037A	86		GEM13	104	95	40017A	92		GND	88	
6	* 40014	DBF14	115	96		86		GEM14	105	94	40017A	92		GND	88	
7	* 40015	DBF15	116	75		87		GEM15	106	77	40017A	93		GND	89	
8	* 40016	DBF16	117	78		87		GEM16	107	76	40017A	93		GND	89	



REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CIRCUIT NO. USED ON	
						STICK NO. 1	STICK NO. 2
R1	1006750-43	RESISTOR	3.0K		1/4 W		
R2	1006750-32		1K				
R3	1006788-8		20				
R4	1006750-49		5.1K				
R5	1006788-8	SEE CHART				40005	40001
R30	1006750-15		200			40006	40002
CR1	1006751	DIODE				40007	40003
CR2						40008	40004
CR3						40009	40013
CR4						40010	40014
CR5						40011	40015
						40012	40016
Q1	1006752	TRANSISTOR					
Q2	1006752						
Q3	1006750						
R6	1006750-45	RESISTOR	3.0K		1/4 W	40017	40022
R7	-39		2K				
R8	-25		680				
R9	-39		2K				
R10	-32		1K				
R11	-43		3.0K			40018	40019
R12	-32		1K				
R13	1006788-8		20				
R14	1006750-32		3.6K			40021	40023
R15	-32		1K				
R16	-49		9.1K				
R17	1006788-8		20				
R18	1006750-5	SEE CHART					
R19	1006750-32		1K			40025	40028
R20	-49		5.1K				
R21	IC 32788-8		20				
R22	IC 32788-8		1K			40024	40026
R23	-49		5.1K				
R24	IC 32788-8		20				
R25	IC 32788-8		3.0K			40027	40029
R26	-32		1K				
R27	-49		6.1K				
R28	1006788-8		20				
R29	1006788-8	SEE CHART					
R31	1006750-15		200			40017	40022
R32	-15		200			40018	40019
R33	-15		200			40021	40020
R34	-15		200			40027	40028
R35	-43		3.0K			40025	40030
CR6	1006751	DIODE				40018	40019
CR7							
CR9						40021	40020
CR10							
CR11							
CR12							
CR13							

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CIRCUIT NO. USED ON	
						STICK NO. 1	STICK NO.
CR14	1006751	DIODE				40023	40025
CR15						40023	40025
CR16						40024	40026
CR17						40024	40026
CR18						40027	40028
CR19							
CR20							
CR21							
CR22							
CR23						40029	40030
L1	1010406-11	INDUCTOR	3.9μH			40018	40019
L2	-17		0.33μH			40021	40020
L3	-17		0.33μH			40027	40028
L4	-7		8.2μH			40035	40036
L5	-7					40035	40036
L6	-7					40035	40034
L7	-7					40034	40034
L8	-7					40031	40032
L9	-7					40031	40032
L10	-17		0.33μH			40005-40012	40013-40018
Q4	1006752	TRANSISTOR				40017	40022
Q5	1006753						
Q6	1006759						
Q7	1006754						
Q8	1006755					40018	40019
Q9	1006759					40018	40019
Q10	1006759					40021	40020
Q11	1006752						
Q12	1006759						
Q13	1006752					40025	40025
Q14						40024	40025
Q15						40027	40028
Q16							
Q17	1006759						
C1	1006755-18	CAPACITOR	500pF		35VDC	40018	40019
C2	1006755-79		6.8μF		35VDC	40035	40036
C3	1006755-32		12μF		20VDC	40035	40036
C4	1006755-79		18μF		35VDC	40033	40034
C5	1006755-79		12μF		20VDC	40034	40034
C6	1006755-79		6.8μF		35VDC	40031	40032
C7	1006755-32		12μF		20VDC	40031	40032
C8	1006755-79		6.8μF		35VDC	40029	40030

R5,R18,R29	
SEE NOTE 5	
VALUE	PART NO.
1.7	1006788-10
1.75	-11
1.8	-12
1.85	-13
1.9	-21
1.95	-22
2.0	-23
2.05	-24
2.1	-25
2.15	-26
2.2	-27
2.25	-28
2.3	-29
2.5	-30
2.6	-31
2.7	-32
2.8	-33
2.9	-34
3.0	-35
3.1	-36

NOTES

1. INTERPRET DRAWINGS PER STANDARDS PRESCRIBED BY MIL-D-70327
2. UNLESS OTHERWISE SPECIFIED, RESISTOR VALUES ARE EXPRESSED IN OHMS
3. CIRCUIT NUMBERS, PIN NUMBERS AND SIGNAL NAMES ON THE SCHEMATIC FOR
MULTIPLE BAY ARE INDICATED BY AN ASTERISK (*) OR BY DOTTED BALLOONS
4. ~~1~~ 150 DENOTES AGC 4 PM NO.
5. ~~2~~ 150 DENOTES AGC 5 PM NO.

4. CIRCUIT TO BE SELECTED BY ELECTRICAL TEST

POSTED

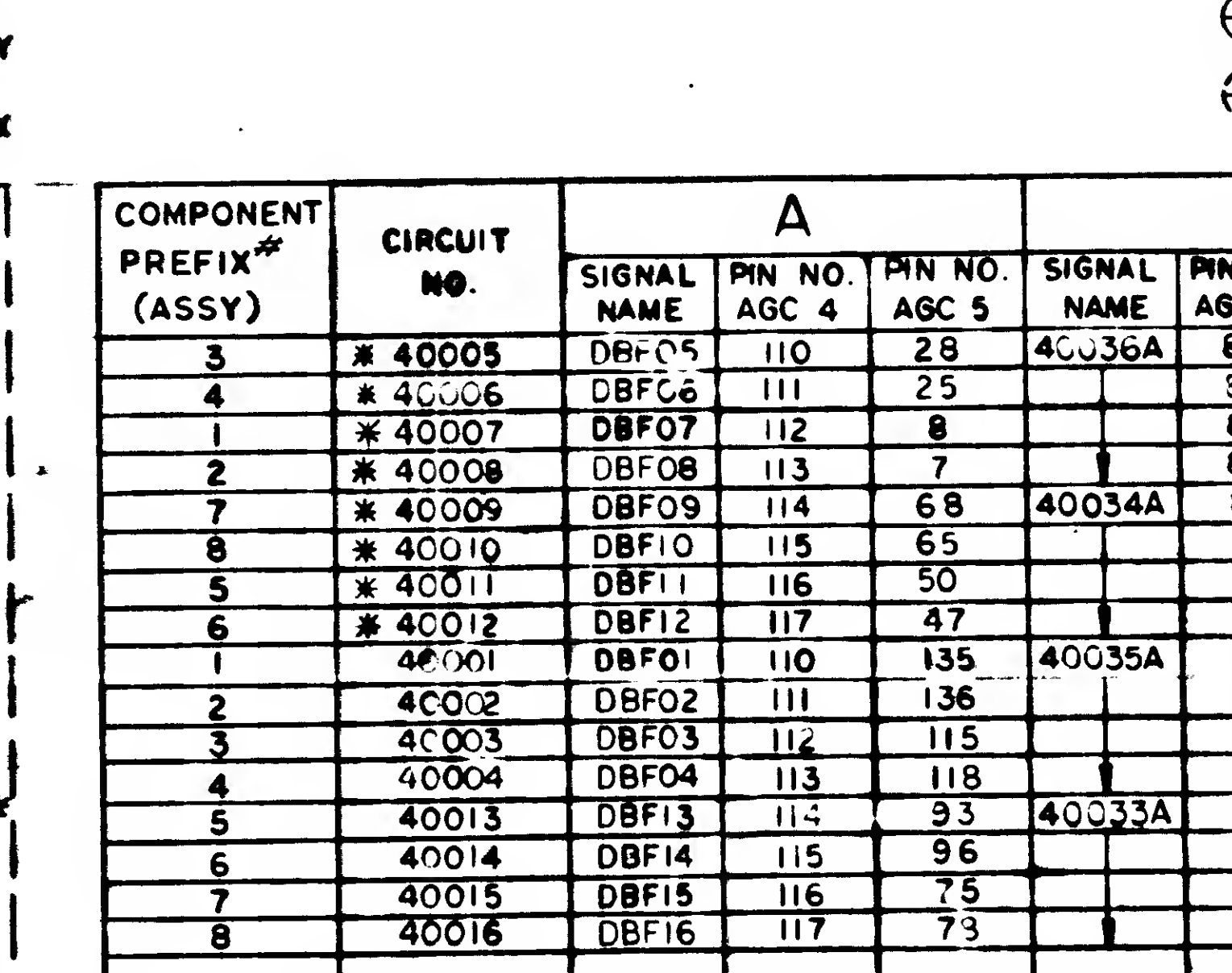
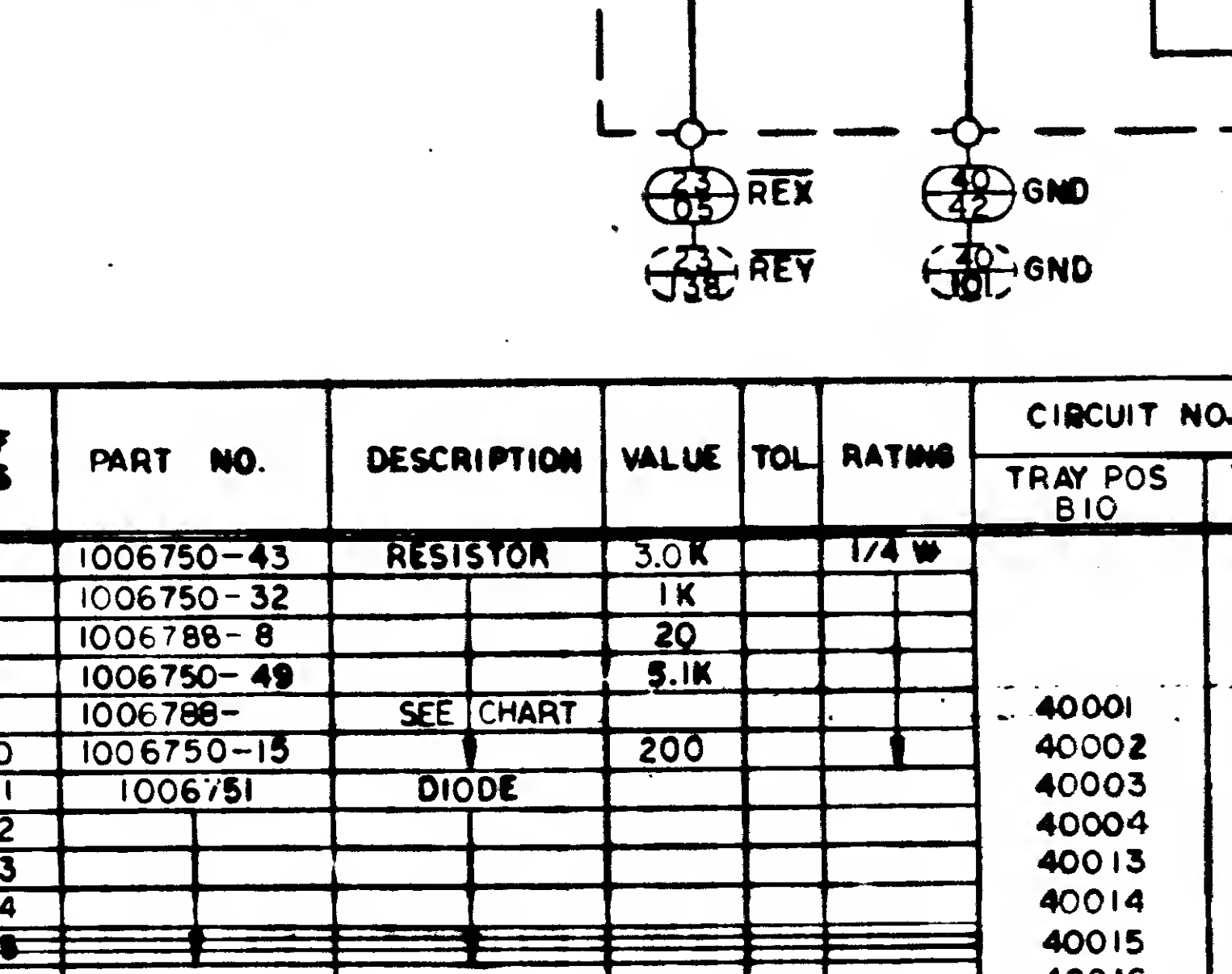
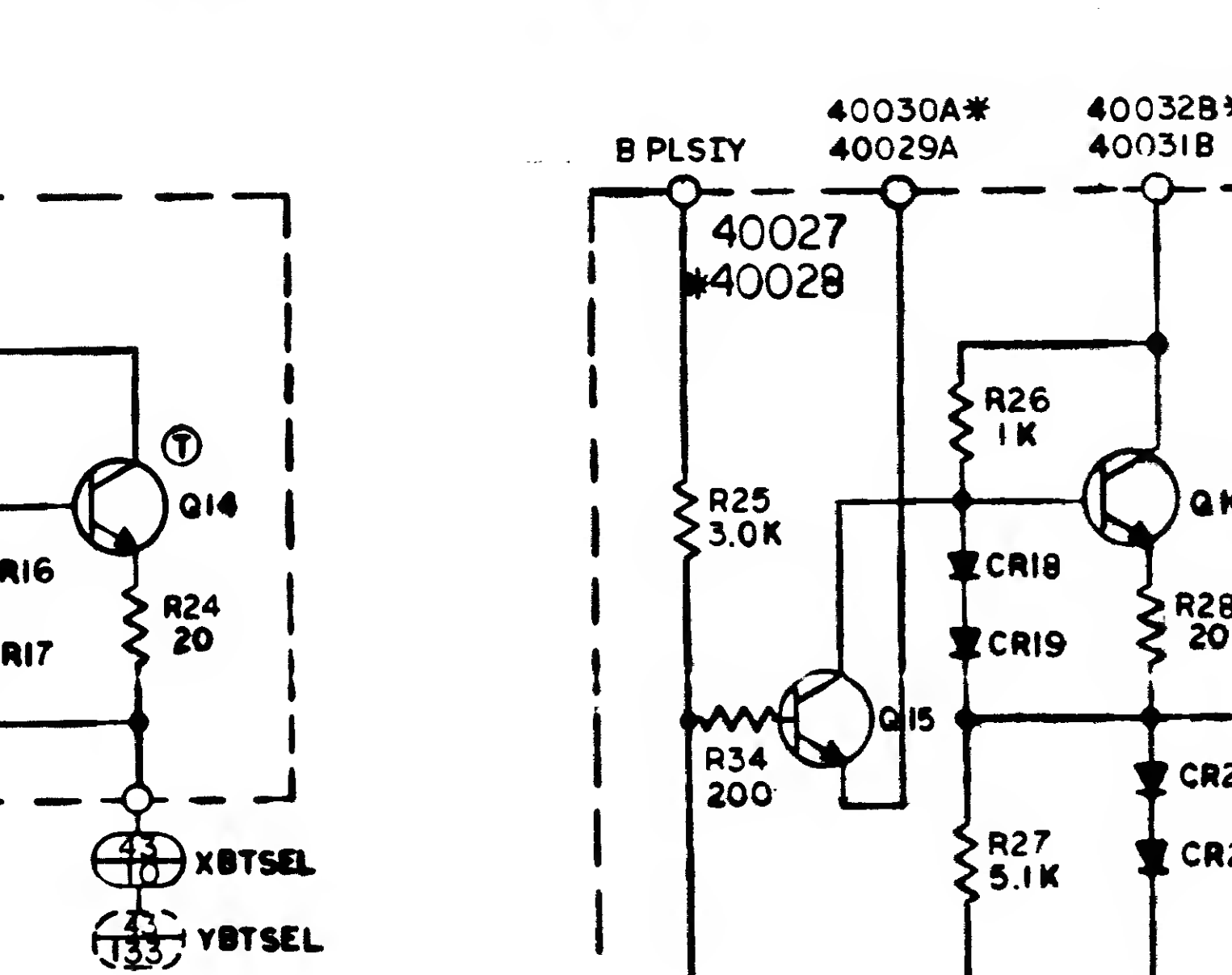
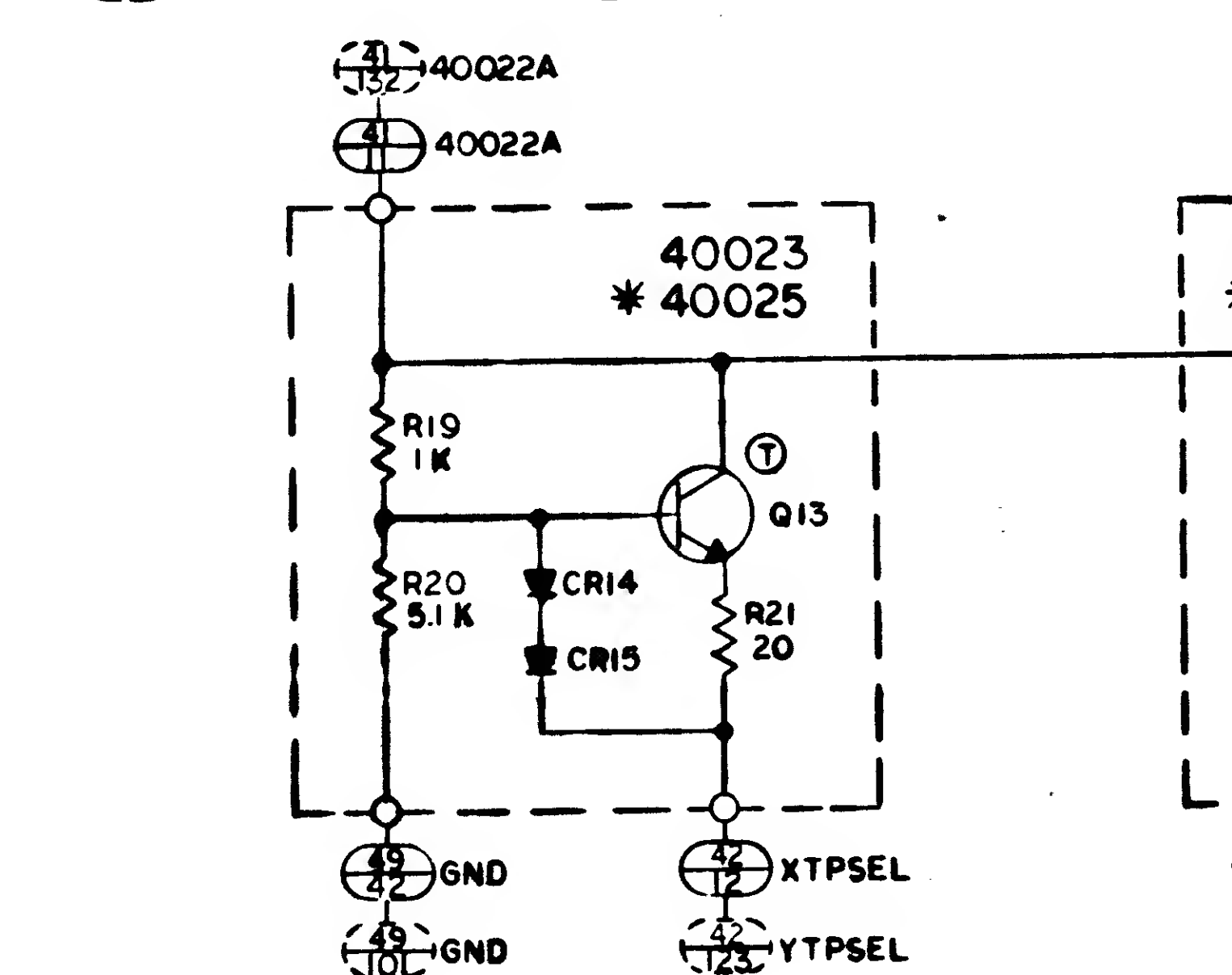
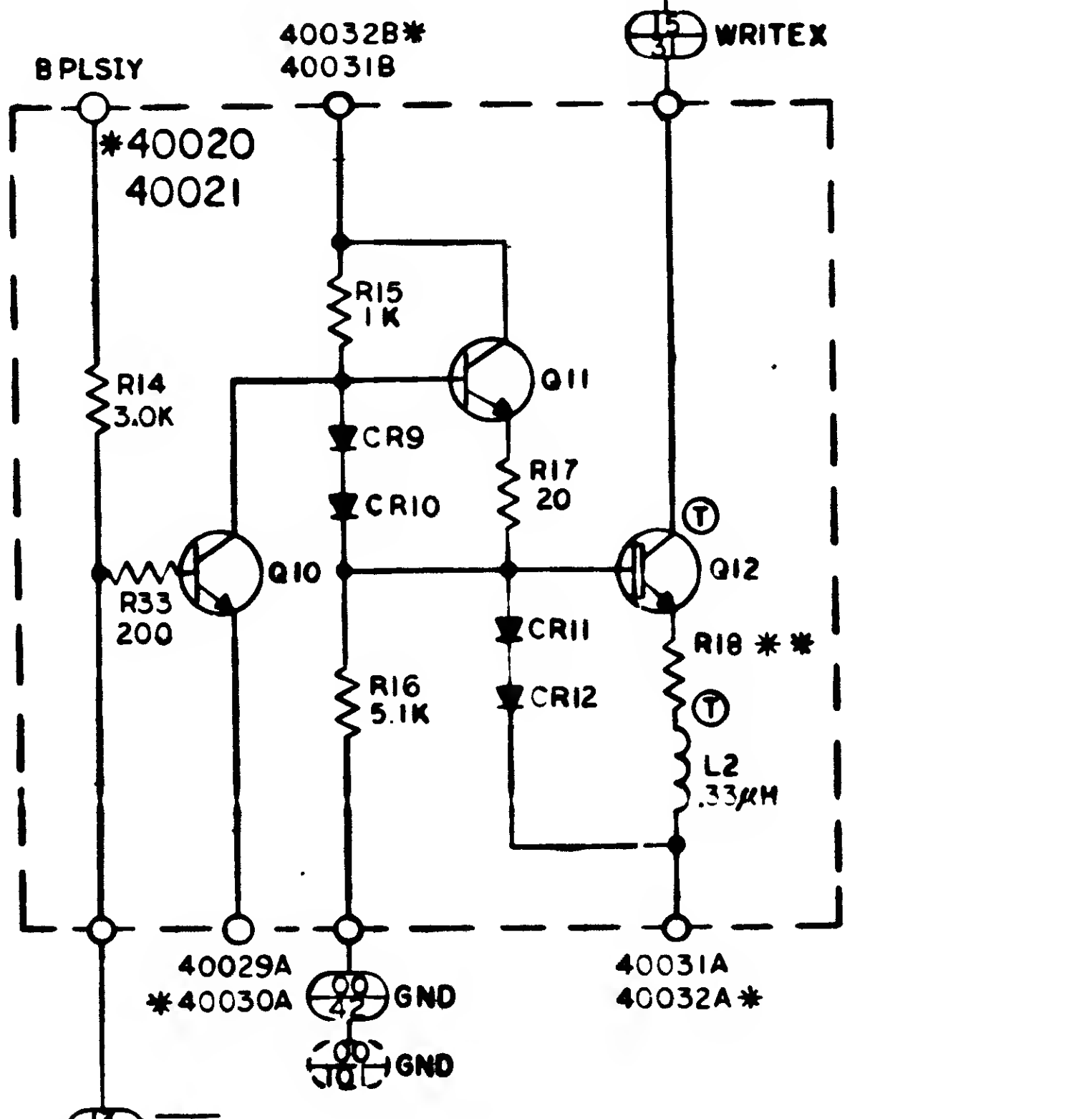
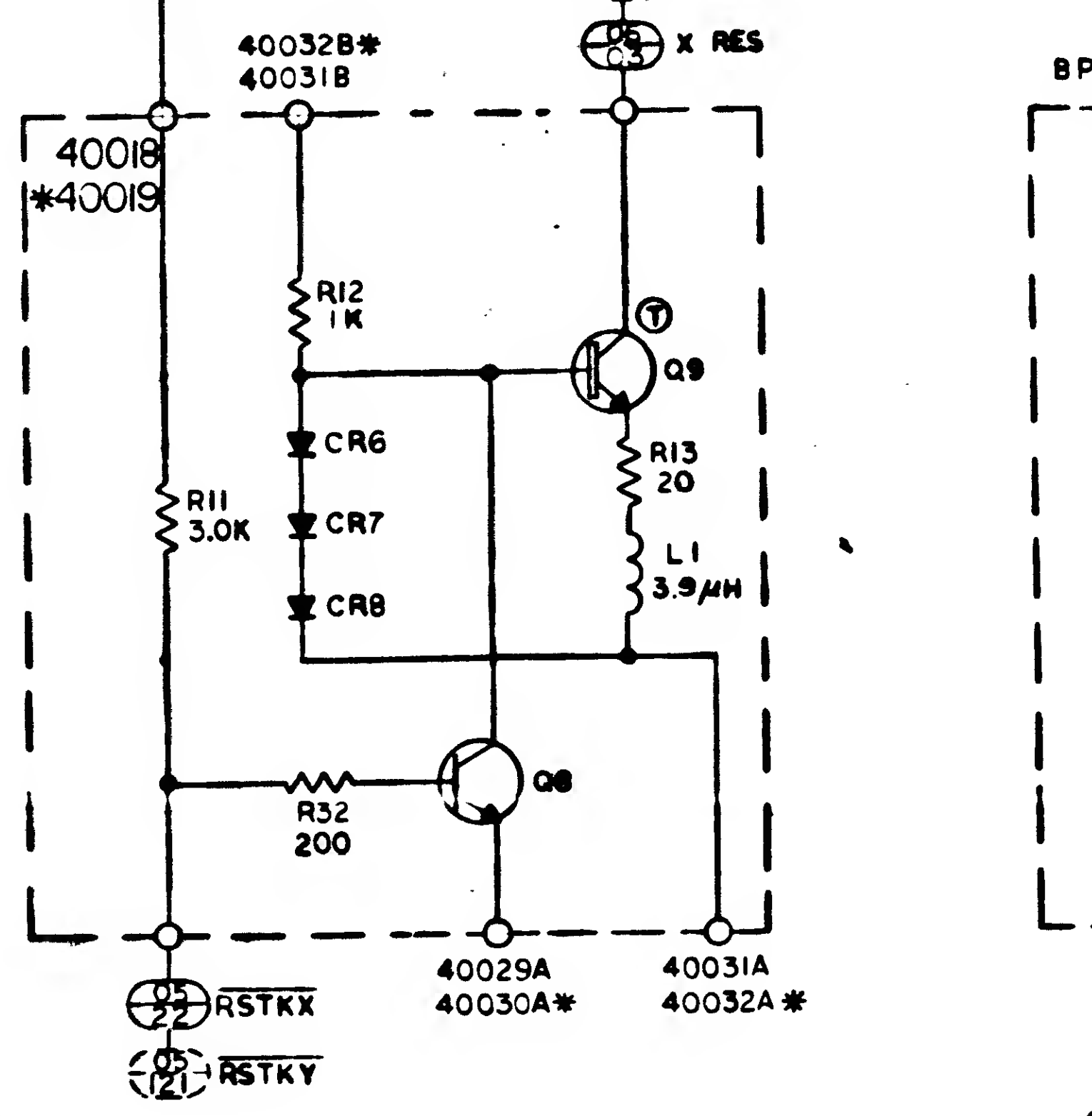
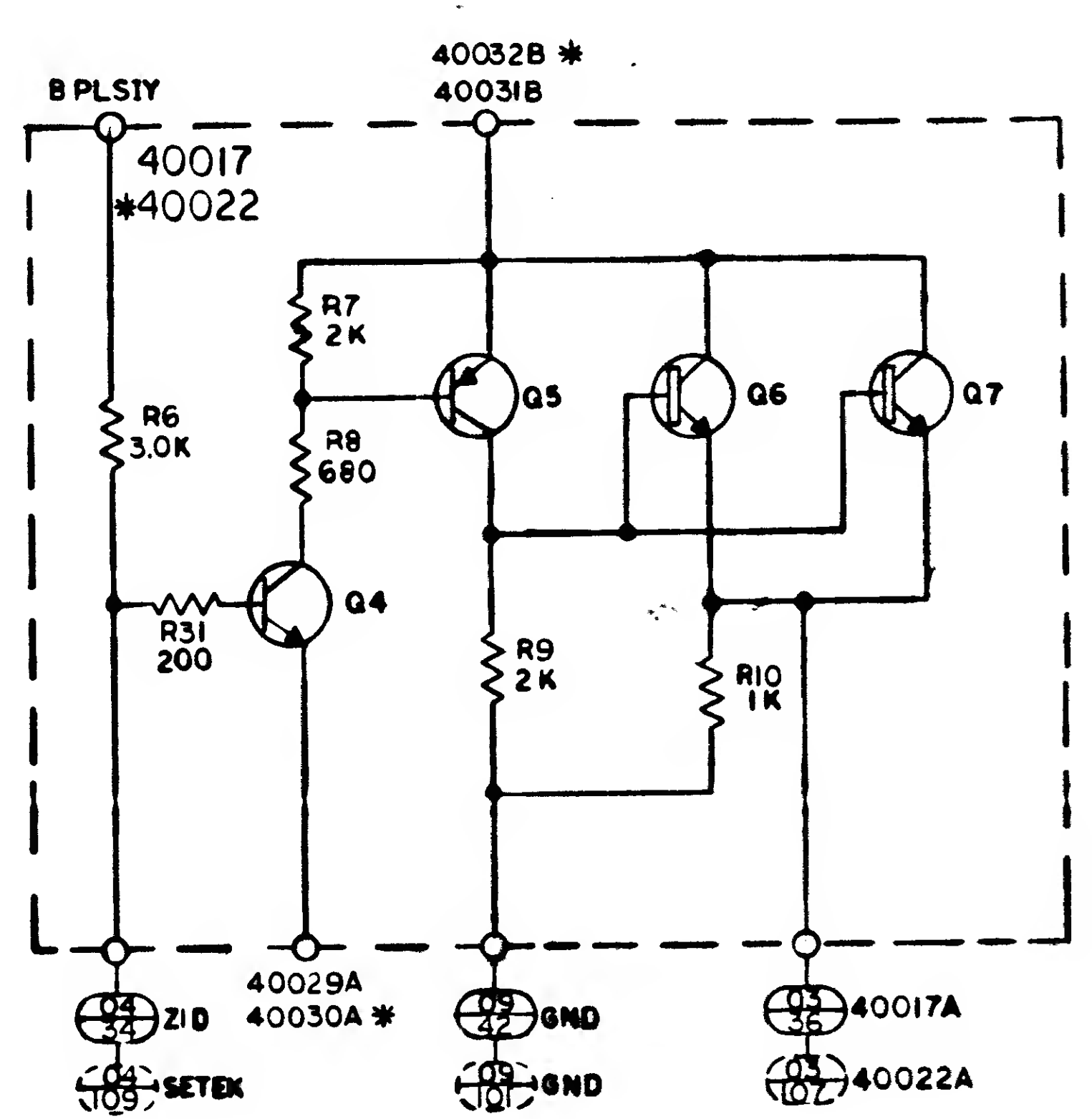
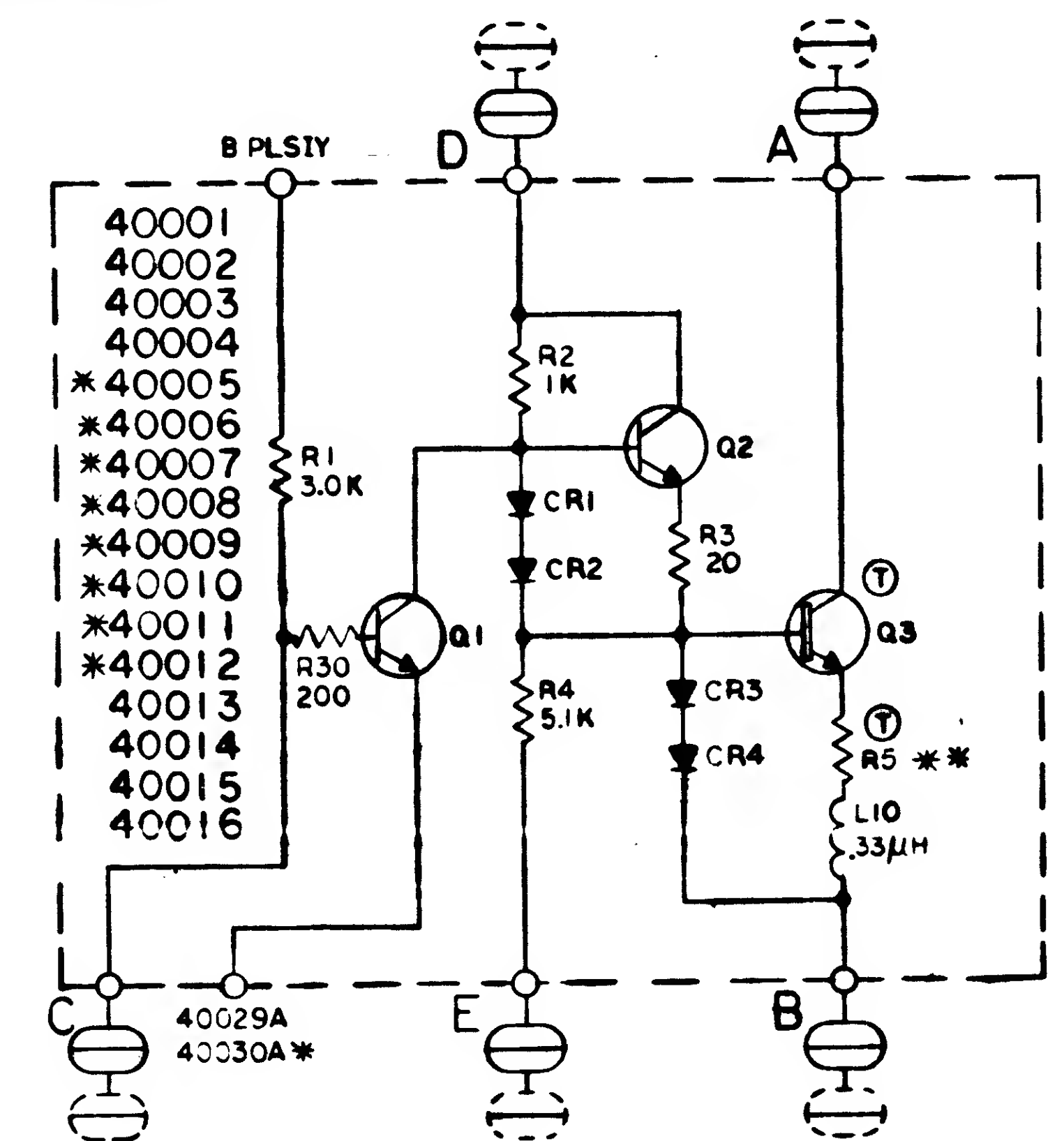
INCHES

0 2

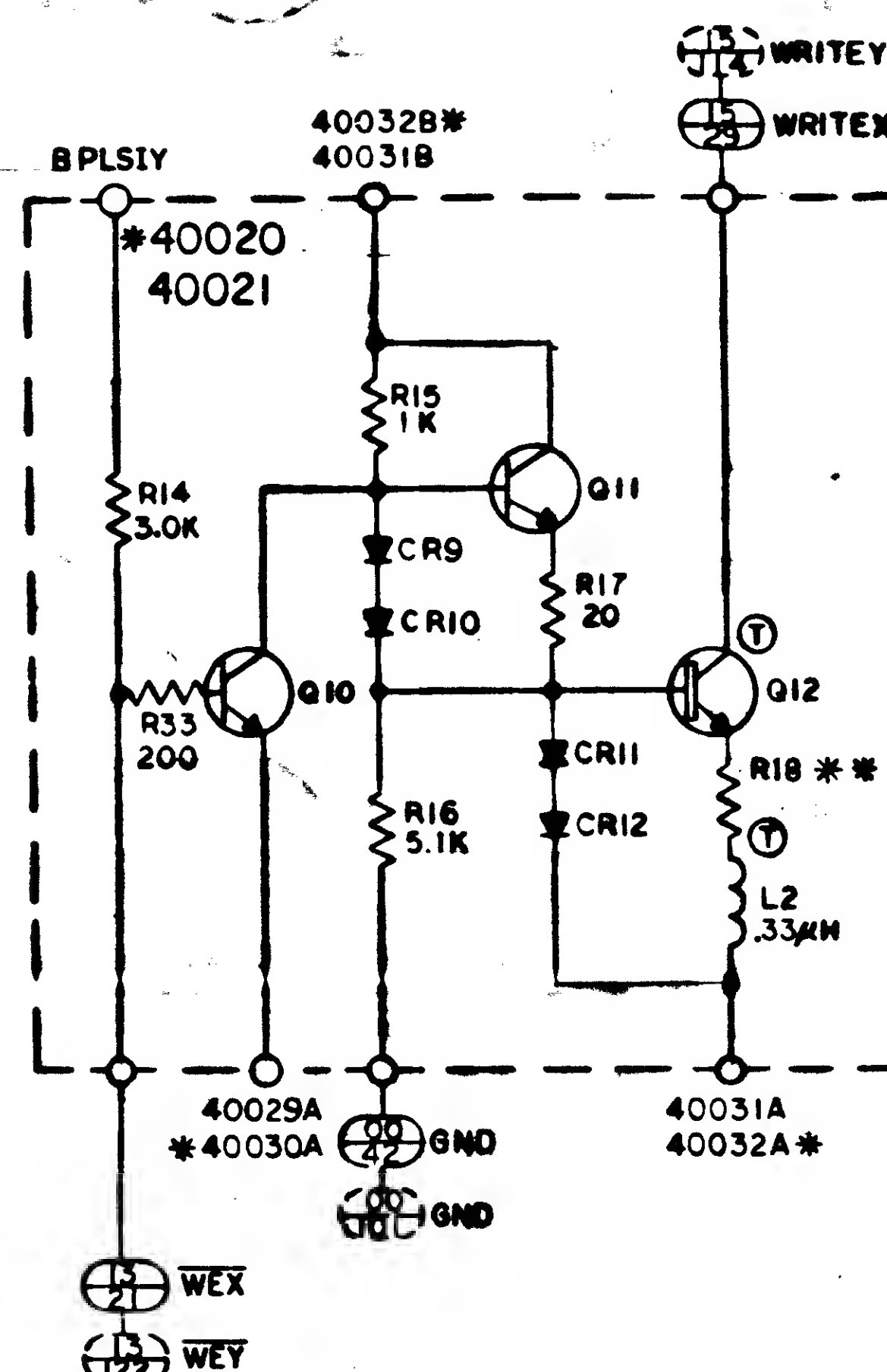
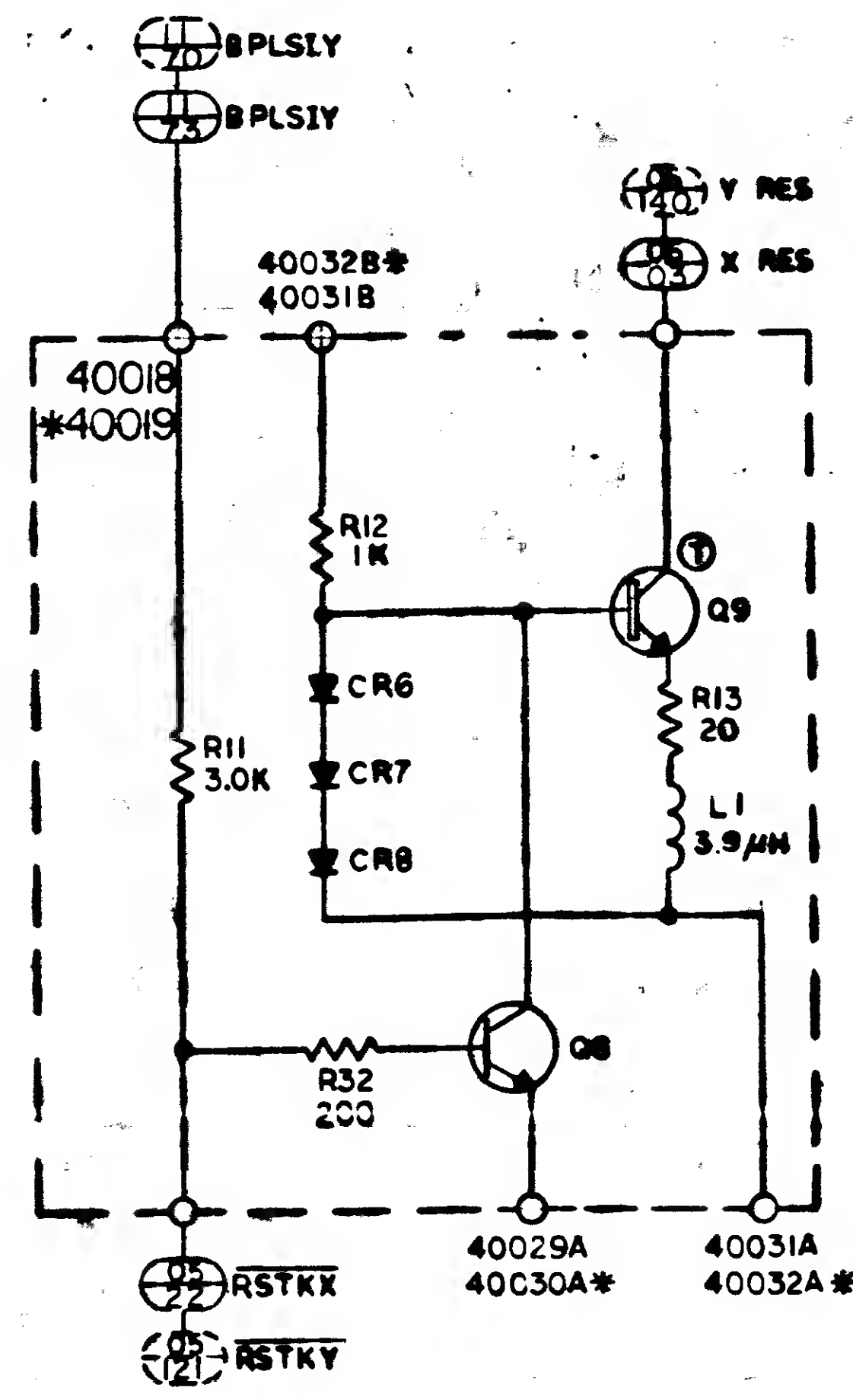
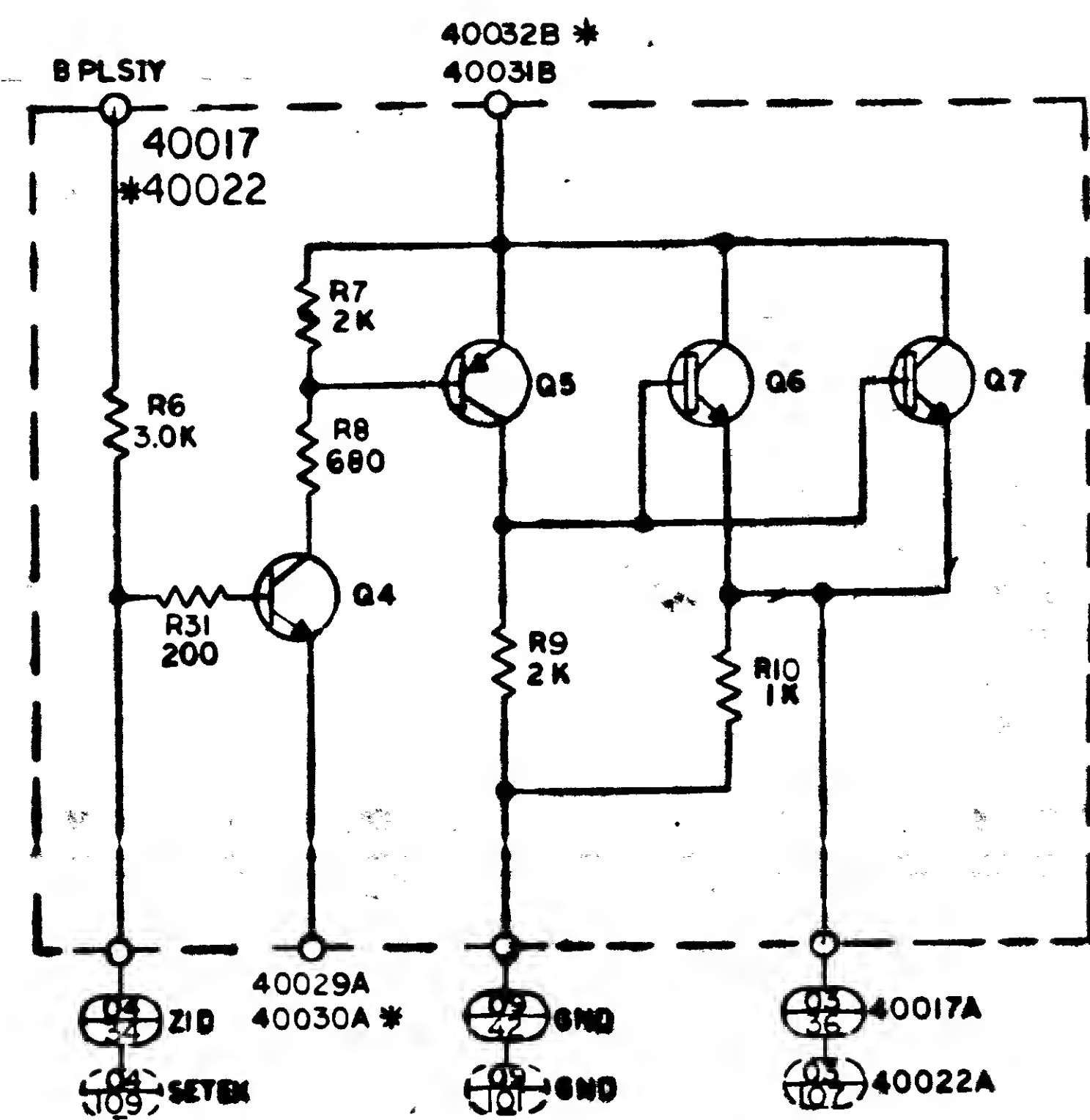
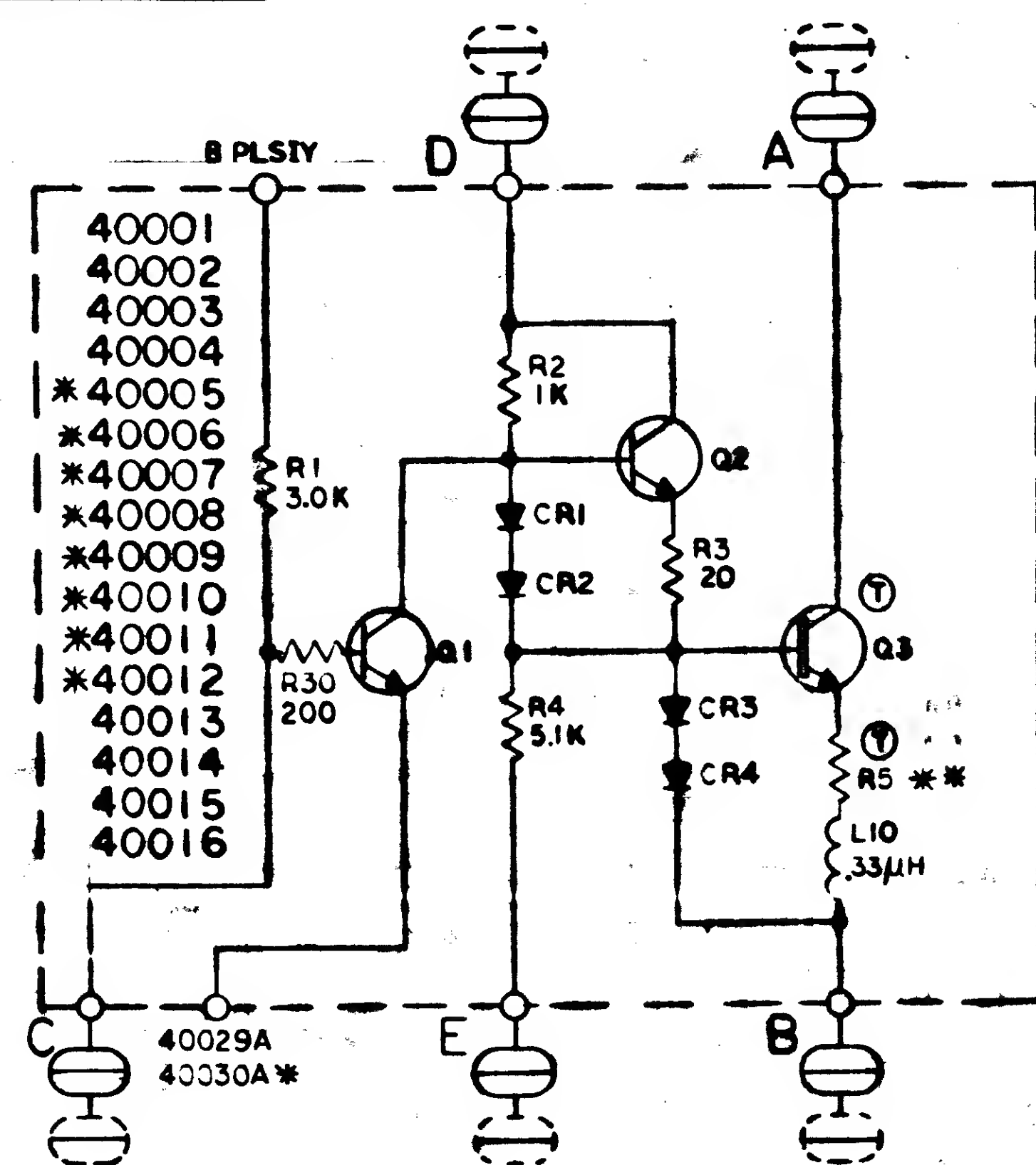
PHOTOGRAPHIC SCALE ONLY

QTY 1	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIN NO.
LIST OF MATERIALS			
M I T INSTRUMENT LAB CAMBRIDGE MASS		MASSACHUSETTS SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN BY <u>W. J. R. 10/15/68</u> DATE <u>10/15/68</u> CHECKED BY <u>W. J. R. 10/15/68</u> APPROVAL <u>W. J. R. 10/15/68</u> A'PROVAL <u>W. J. R. 10/15/68</u>		SCHEMATIC: ERASABLE DRIVERS MODULE BIO AND B11	
NASA APPROVAL <u>W. J. R. 10/15/68</u> 10-27-68		CODE IDENT NO. SIZE E	NASA DRAWING NO. 1006086
MIT APPROVAL <u>W. J. R. 10/15/68</u> 10-27-68		SCALE _____	SHEET 1 OF 1

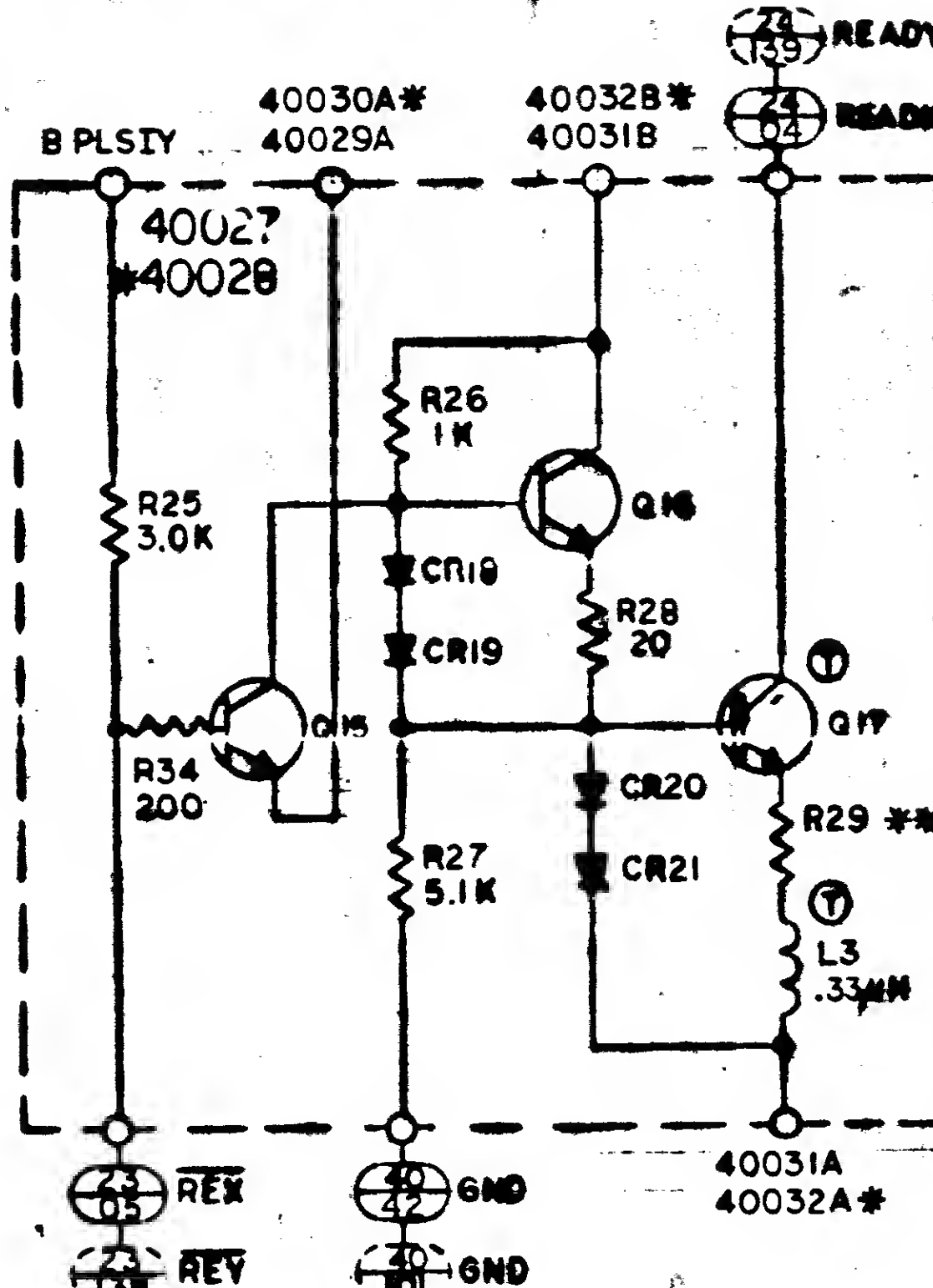
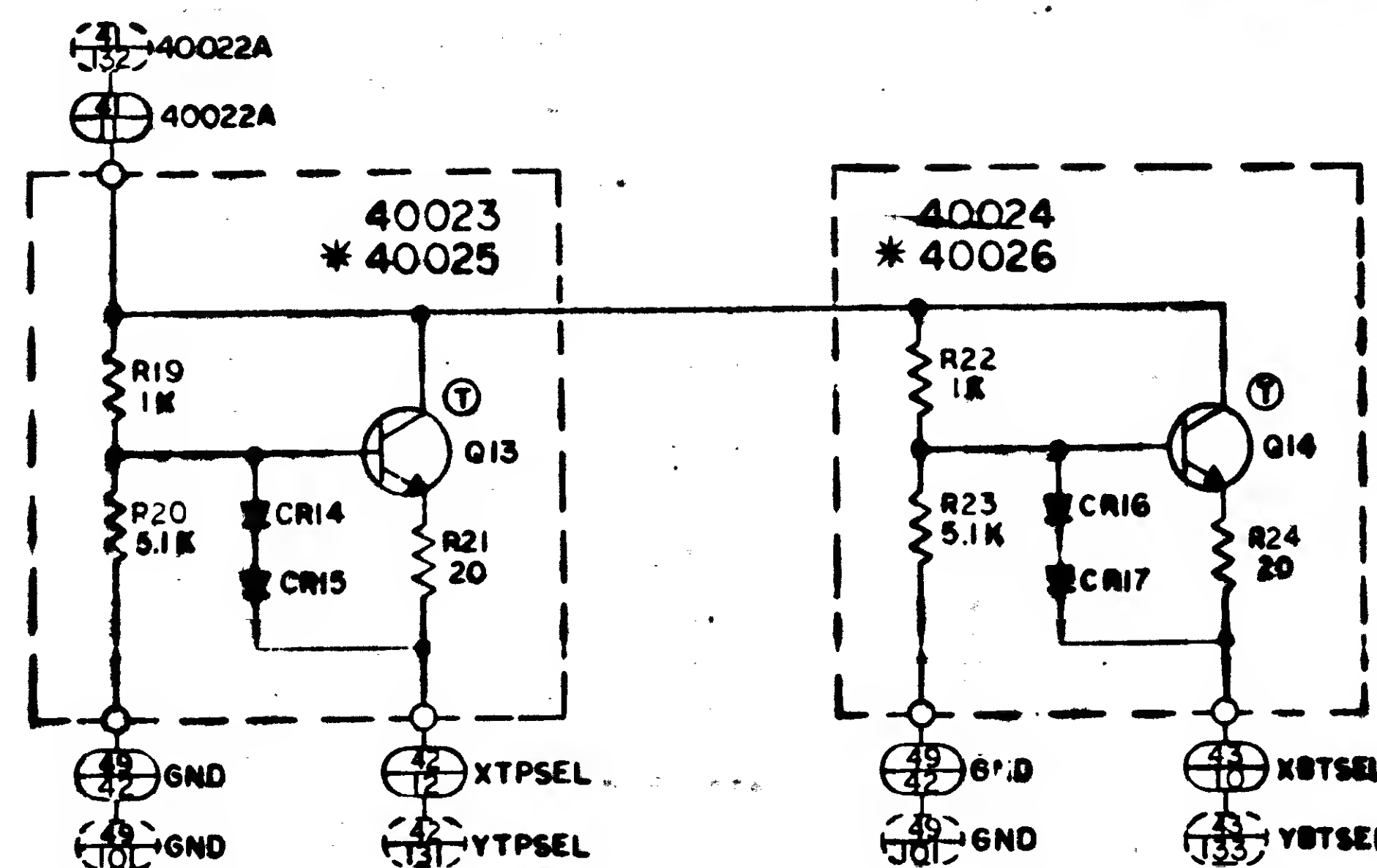
NOTES: 1. UNLESS OTHERWISE SPECIFIED, RESISTOR VALUES ARE EXPRESSED IN OHMS.
2. UNLESS OTHERWISE SPECIFIED, PIN NUMBERS AND SIGNAL NAMES ON THE SCHEMATIC FOR TRAY POS. B11 ARE INDICATED BY AN ASTERISK (*) OR BY DOTTED BALLOONS (---).
3. DENOTES AGC 4 PIN NO.
4. DENOTES AGC 5 PIN NO.
5. RATIO SELECTED BY ELECTRICAL TEST.



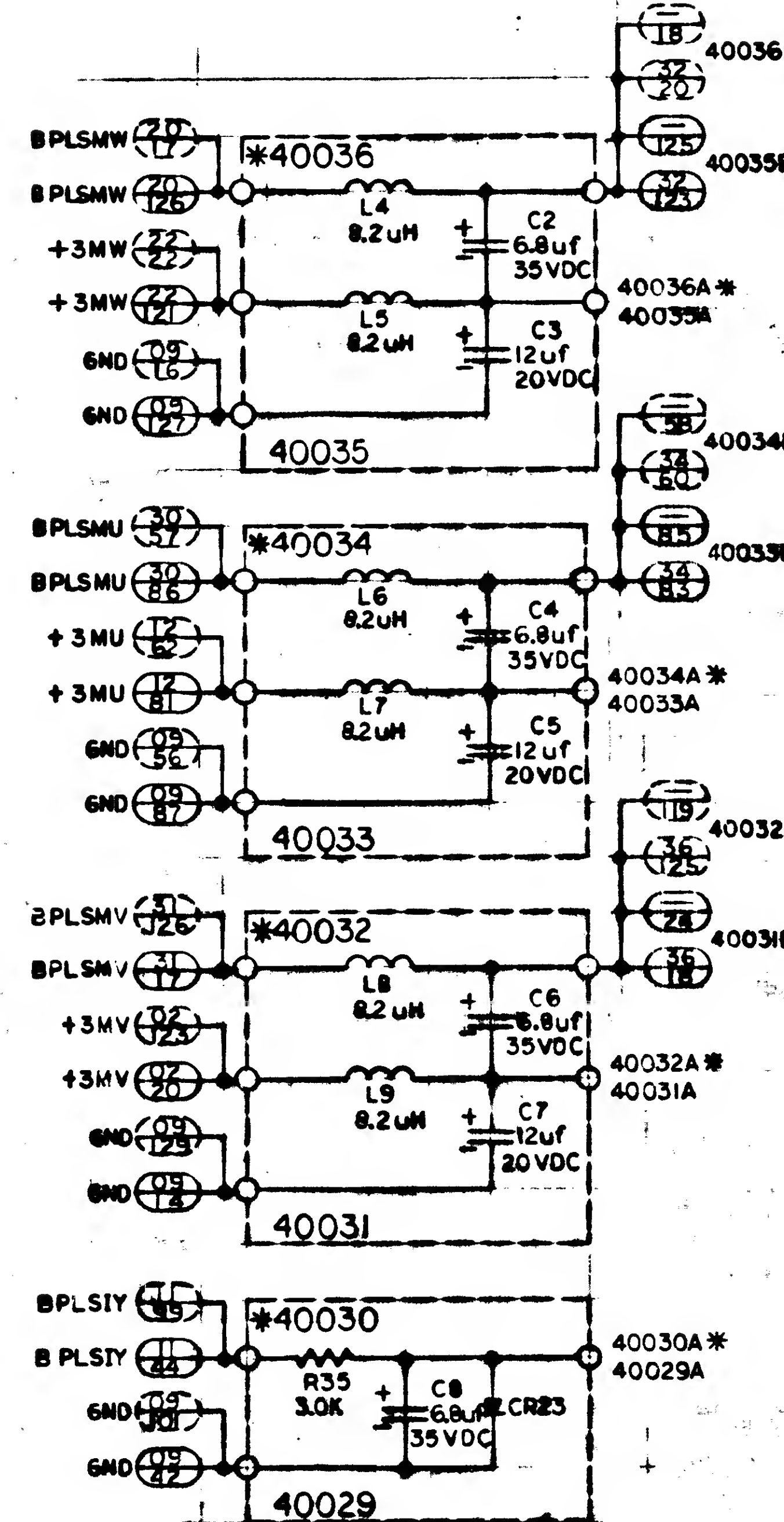
1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
2. DIMENSIONS ON FRACTIONS ARE IN INCHES.
3. DIMENSIONS ON DECIMALS ARE IN INCHES.
4. DIMENSIONS ON ANGLES ARE IN DEGREES.
5. DIMENSIONS ON RADIANS ARE IN RADIANS.
6. DIMENSIONS ON PERCENTS ARE IN PERCENTS.
7. DIMENSIONS ON FEET ARE IN FEET.
8. DIMENSIONS ON METERS ARE IN METERS.
9. DIMENSIONS ON KILOMETERS ARE IN KILOMETERS.
10. DIMENSIONS ON MILES ARE IN MILES.
11. DIMENSIONS ON NAUTICAL MILES ARE IN NAUTICAL MILES.
12. DIMENSIONS ON NAUTICAL MILES ARE IN NAUTICAL MILES.
13. DIMENSIONS ON NAUTICAL MILES ARE IN NAUTICAL MILES.
14. DIMENSIONS ON NAUTICAL MILES ARE IN NAUTICAL MILES.
15. DIMENSIONS ON NAUTICAL MILES ARE IN NAUTICAL MILES.
16. DIMENSIONS ON NAUTICAL MILES ARE IN NAUTICAL MILES.
17. DIMENSIONS ON NAUTICAL MILES ARE IN NAUTICAL MILES.
18. DIMENSIONS ON NAUTICAL MILES ARE IN NAUTICAL MILES.
19. DIMENSIONS ON NAUTICAL MILES ARE IN NAUTICAL MILES.
20. DIMENSIONS ON NAUTICAL MILES ARE IN NAUTICAL MILES.



REV	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TORR 01250	9/1/73	W. J. C.
B	REVISED PER TORR 02551	9/1/73	W. J. C.
C	REVISED PER TORR 02221	9/1/73	W. J. C.
D	REVISED AND UPGRADED TO CLASS A PER TORR 03047	9/1/73	W. J. C.
E	REVISED PER TORR 03175	9/1/73	W. J. C.
F	REVISED PER TORR 03441	9/1/73	W. J. C.



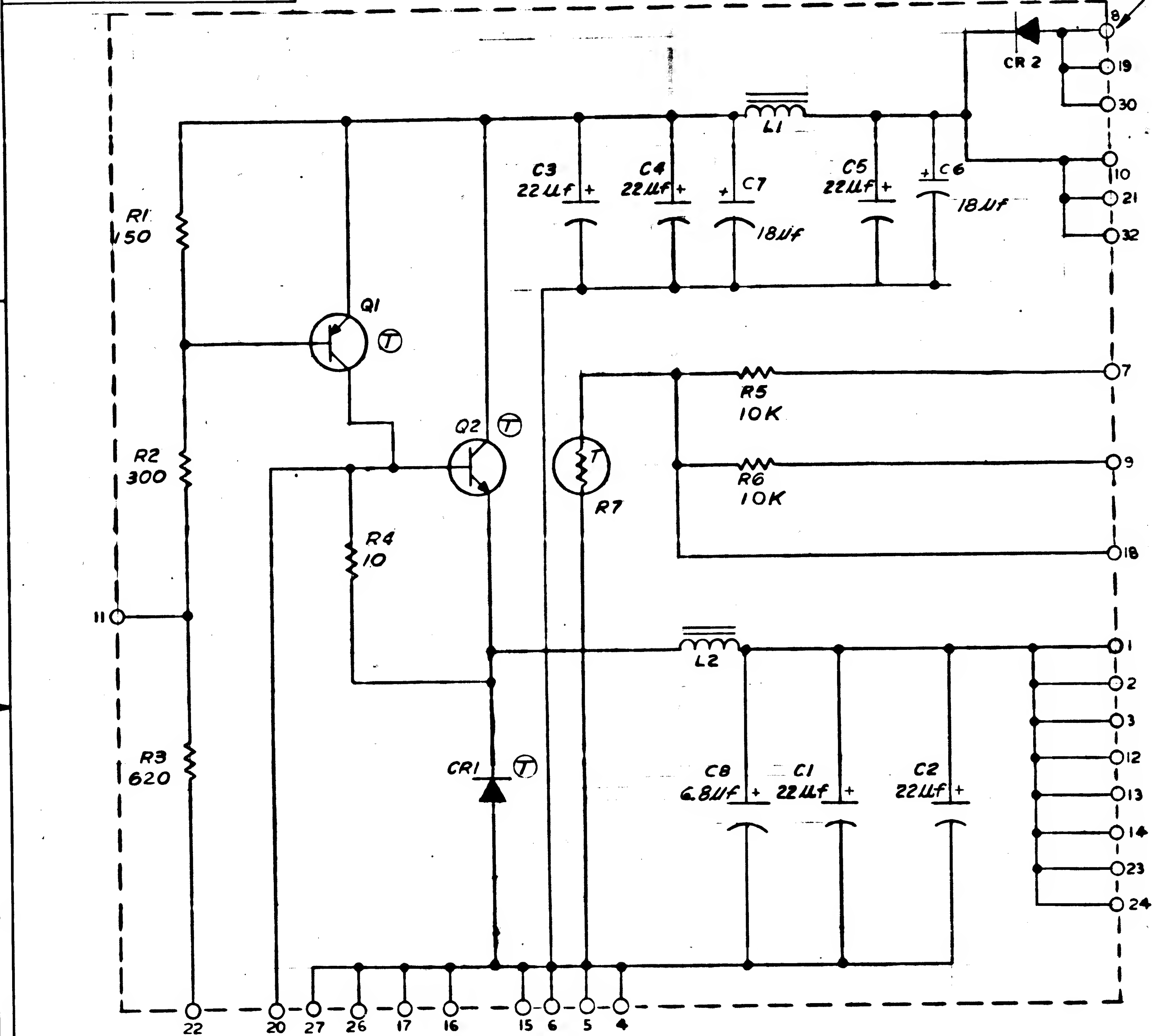
COMPONENT PREFIX (ASSY)	CIRCUIT NO.	SIGNAL NAME	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL NAME	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL NAME	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL NAME	PIN NO. AGC 4	PIN NO. AGC 5
3	40005	DBF05	110	28	40036A	84	85	GEM05	100	26	40017A	90	37
4	40006	DBF06	111	25	40036A	84	85	GEM06	101	27	40017A	90	37
1	40007	DBF07	112	8	40036A	84	85	GEM07	102	06	40017A	91	37
2	40008	DBF08	113	7	40036A	84	85	GEM08	103	09	40017A	91	37
7	40009	DBF09	114	68	40036A	84	85	GEM09	104	66	40017A	92	37
8	40010	DBF10	115	65	40036A	84	85	GEM10	105	67	40017A	92	37
5	40011	DBF11	116	50	40036A	84	85	GEM11	106	48	40017A	93	37
6	40012	DBF12	117	47	40036A	84	85	GEM12	107	49	40017A	93	37
1	40001	DBF01	110	135	40036A	84	85	GEM01	100	137	40017A	90	106
2	40002	DBF02	111	136	40036A	84	85	GEM02	101	134	40017A	90	106
3	40003	DBF03	112	115	40036A	84	85	GEM03	102	116	40017A	91	106
4	40004	DBF04	113	118	40036A	84	85	GEM04	103	117	40017A	91	106
5	40013	DBF13	114	93	40036A	84	85	GEM13	104	95	40017A	92	106
6	40014	DBF14	115	96	40036A	84	85	GEM14	105	94	40017A	92	106
7	40015	DBF15	116	75	40036A	84	85	GEM15	106	77	40017A	93	106
8	40016	DBF16	117	78	40036A	84	85	GEM16	107	76	40017A	93	106



REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CIRCUIT NO. USED IN TRAY POSITION	TRAY POS B10	TRAY POS B11
R1	1006750-45	RESISTOR	3.0K	1/4 W		40017	40022	
R2	1006750-32		1K			40017	40022	
R3	1006750-8		20			40017	40022	
R4	1006750-49		5.1K			40017	40022	
R5	1006750-15		200			40017	40022	
R6	1006750-45	RESISTOR	3.0K	1/4 W		40017	40022	
R7	1006750-32		1K			40017	40022	
R8	1006750-8		20			40017	40022	
R9	1006750-49		5.1K			40017	40022	
R10	1006750-15		200			40017	40022	
R11	1006750-45		3.0K			40017	40022	
R12	1006750-32		1K			40017	40022	
R13	1006750-8		20			40017	40022	
R14	1006750-49		5.1K			40017	40022	
R15	1006750-15		200			40017	40022	
R16	1006750-45		3.0K			40017	40022	
R17	1006750-32		1K			40017	40022	
R18	1006750-8		20			40017	40022	
R19	1006750-49		5.1K			40017	40022	
R20	1006750-15		200			40017	40022	
R21	1006750-45		3.0K			40017	40022	
R22	1006750-32		1K			40017	40022	
R23	1006750-8		20			40017	40022	
R24	1006750-49		5.1K			40017	40022	
R25	1006750-15		200			40017	40022	
R26	1006750-45		3.0K			40017	40022	
R27	1006750-32		1K			40017	40022	
R28	1006750-8		20			40017	40022	
R29	1006750-49		5.1K			40017	40022	
R30	1006750-15		200			40017	40022	
R31	1006750-45		3.0K			40017	40022	
R32	1006750-32		1K			40017	40022	
R33	1006750-8		20			40017	40022	
R34	1006750-49		5.1K			40017	40022	
R35	1006750-15		200			40017	40022	
R36	1006750-45		3.0K			40017	40022	
R37	1006750-32		1K			40017	40022	
R38	1006750-8		20			40017	40022	
R39	1006750-49		5.1K			40017	40022	
R40	1006750-15		200			40017	40022	
R41	1006750-45		3.0K			40017	40022	
R42	1006750-32		1K			40017	40022	
R43	1006750-8		20			40017	40022	
R44	1006750-49		5.1K			40017	40022	
R45	1006750-15		200			40017	40022	
R46	1006750-45		3.0K			40017	40022	
R47	1006750-32		1K			40017	40022	
R48	1006750-8		20			40017	40022	
R49	1006750-49		5.1K			40017	40022	
R50	1006750-15		200			40017	40022	
R51	1006750-45		3.0K			40017	40022	
R52	1006750-32		1K			40017	40022	
R53	1006750-8		20			40017	40022	
R54	1006750-49		5.1K			40017	40022	
R55	1006750-15		200			40017	40022	
R56	1006750-45		3.0K			40017	40022	
R57	1006750-32		1K			40017	40022	
R58	1006750-8		20			40017	40022	
R59	1006750-49		5.1K			40017	40022	
R60	1006750-15		200			40017	40022	
R61	1006750-45		3.0K			40017	40022	
R62	1006750-32		1K			40017	40022	
R63	1006750-8		20			40017	40022	
R64	1006750-49		5.1K			40017	40022	
R65	1006750-15		200			40017	40022	
R66	1006750-45		3.0K			40017	40022	
R67	1006750-32		1K			40017	40022	
R68	1006750-8		20			40017	40022	
R69	1006750-49		5.1K			40017	40022	
R70	1006750-15		200			40017	40022	
R71	1006750-45		3.0K			40017	40022	
R72	1006750-32		1K			40017	40022	
R73	1006750-8		20			40017	40022	
R74	1006750-49		5.1K			40017	40022	
R75	1006750-15		200			40017	40022	
R76	1006750-45		3.0K			40017	40022	
R77	1006750-32		1K			40017	40022	
R78	1006750-8		20			40017	40022	
R79	1006750-49		5.1K			40017	40022	
R80	1006750-15		200			40017	40022	
R81	1006750-45		3.0K			40017	40022	
R82	1006750-32		1K			40017	40022	
R83	1006750-8		20			40017	40022	
R84	1006750-49		5.1K			40017	40022	
R85	1006750-15		200			40017	40022	
R86	1006750-45		3.0K			40017	40022	
R87	1006750-32		1K			40017	40022	
R88	1006750-8		20			40017	40022	
R89	1006750-49		5.1K			40017	40022	
R90	1006750-15		200			40017	40022	
R91	1006750-45		3.0K			40017	40022	
R92	1006750-32		1K			40017	40022	
R93	1006750-8		20			40017	40022	
R94	1006750-49		5.1K			40017	40022	
R95	1006750-15		200			40017	40022	
R96	1006750-45		3.0K			40017	40022	
R97	1006750-32		1K			40017	40022	
R98	1006750-8		20			40017	40022	
R99	1006750-49		5.1K			40017	40022	
R100	1006750-15		200			40017	40022	

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CIRCUIT NO USED IN TRAY POSITION	
						TRAY POS B10	TRAY POS B11
CR1	1006751	DIODE				40023	40025
CR18						40023	40025
CR16						40024	40026
CR17						40024	40026
CR18						40027	40028
CR19							
CR20							
CR21							
CR22							
CR23						40029	40030
L1	1010406-11	INDUCTOR	3.9μH			40018	40019
L2	-17		0.33μH			40021	40020
L3	-17		0.33μH			40027	40028
L4	-7		8.2μH			40035	40036
L5	-7					40035	40036
L6	-7					40033	40034
L7	-7					40033	40034
L8	-7					40031	40032
L9	-7					40031	40032
L10	-17		0.33μH			40018 40024 40016	40005-40012 40022
Q4	1006752	TRANSISTOR					
Q5	1006753						
Q6	1006759						
Q7	1006796						
Q8	1006752					40018	40019
Q9	1006759					40018	40019
Q10	1006758					40021	40020
Q11	1006758						
Q12	1006756						
Q13	1006752					40025	40025
Q14						40024	40026
Q15						40027	40028
Q16							
Q17	1006756						
Q18	1006775-9	CAPACITOR	3.0μF		25VDC	40018	40019
C2	1006755-79		6.8μF		35VDC	40035	40036
C3	1006755-32		12μF		20VDC	40035	40036
C4	1006755-79		6.8μF		35VDC	40033	40034
C5	1006755-32		12μF		20VDC	40033	40034
C6	1006755-79		6.8μF		35VDC	40031	40032
C7	1006755-32		12μF		20VDC	40031	40032
C8	1006755-32		12μF		35VDC	40029	40030

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFENSE-RELATED GOVERNMENT PROGRAM, THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMISSIONS FROM THE APPROPRIATE AGENCIES AND FOR PROTECTING THE INFORMATION FROM DISCLOSURE TO UNAUTHORIZED PERSONS. THE GOVERNMENT MAKES NO WARRANTY, REPRESENTATION, OR GUARANTEE, EXPRESS OR IMPLIED, REGARDING THE ACCURACY, COMPLETENESS, OR SUITABILITY OF THE INFORMATION FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT WAS ORIGINALLY INTENDED. THE GOVERNMENT SHALL NOT BE LIABLE FOR ANY DAMAGES, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING OUT OF OR FROM THE USE OF THIS INFORMATION.



SEE TABLE FOR SIG DESIGNATION

NOTES
1. UNLESS OTHERWISE SPECIFIED ALL RESISTOR VALUES ARE EXPRESSED IN OHMS, K INDICATES THOUSANDS OF OHMS
2. N.C. INDICATES NO CONNECTION FOR MODULE IN THIS TRAY POSITION

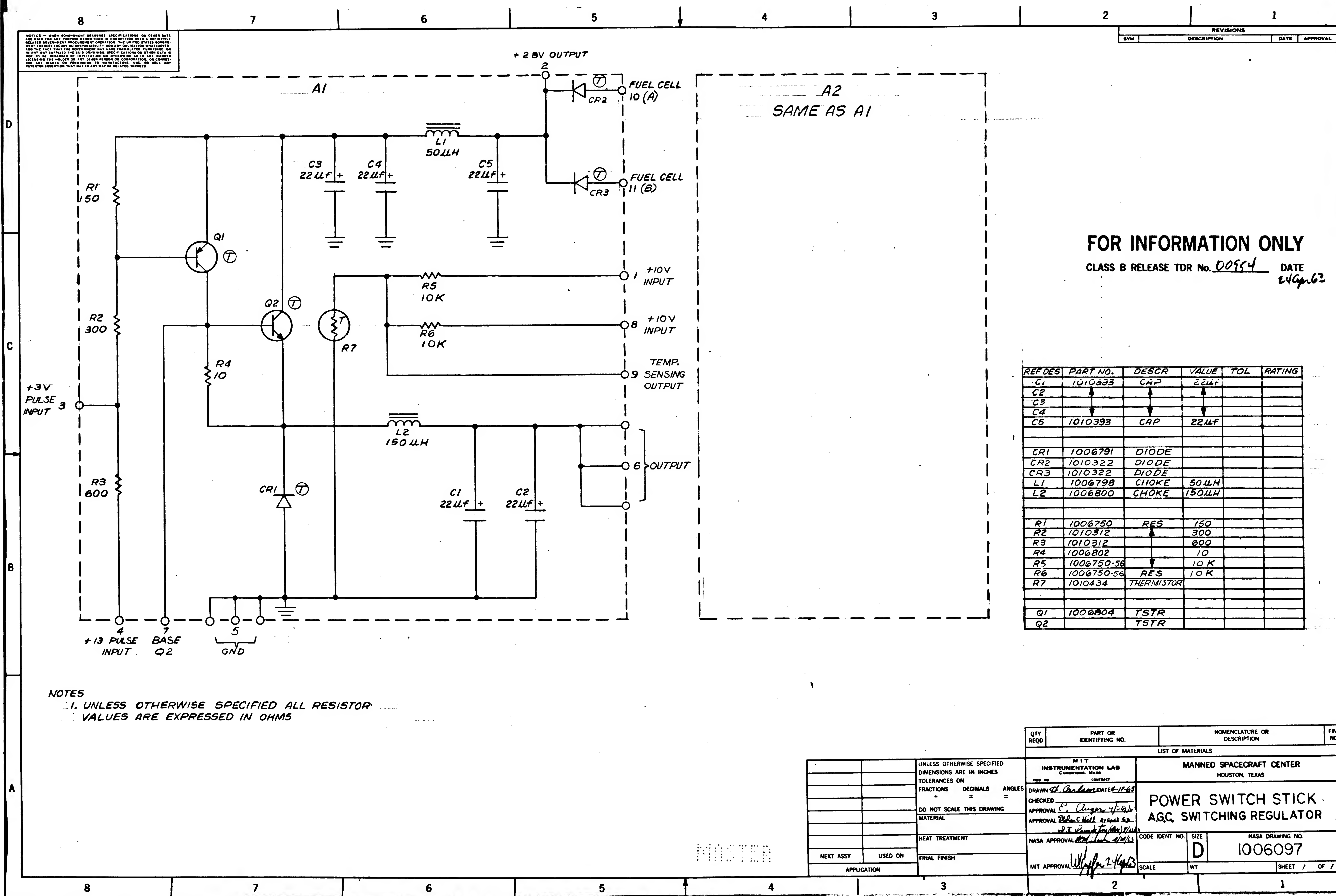
PIN NO.	SIGNAL DESIGNATION		
	TRAY POS B2	TRAY POS B3	TRAY POS B4
8, 19, 30	N.C.	+28 B	+28 A
10, 21, 32	+28 COM	+28 COM	+28 COM
7	B PLUS A	B PLUS A	B PLUS A
9	N.C.	N.C.	N.C.
18	RD 171	RD 172	RD 173
12, 13, 14	B PLUS B	+3B	+3B
23, 24	B PLUS A	+3A	+3A
4, 5, 6, 15, 16, 17, 26, 27	OVDC	OVDC	OVDC
20	N.C.	BSQ2	BSQ2
22	+13PLS	N.C.	N.C.
11	N.C.	+3PLS	+3PLS

REF DWG: L MECHANICAL ASSY 100313

REVISIONS		TDRR 00954	
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED AND UPGRADED TO CLASS A RELEASE PER TDRR 01248	10/1/68	W.K.
B	REVISED PER TDRR 01459	10/1/68	W.K.
C	REVISED PER TDRR 02055	11/1/68	W.K.
D	REVISED PER TDRR 03131	11/2/68	W.K.
E	REVISED PER TDRR 03457	12/1/68	W.K.
F	REVISED PER TDRR 07345 DR 1006097 APPD	1/1/69	W.K.

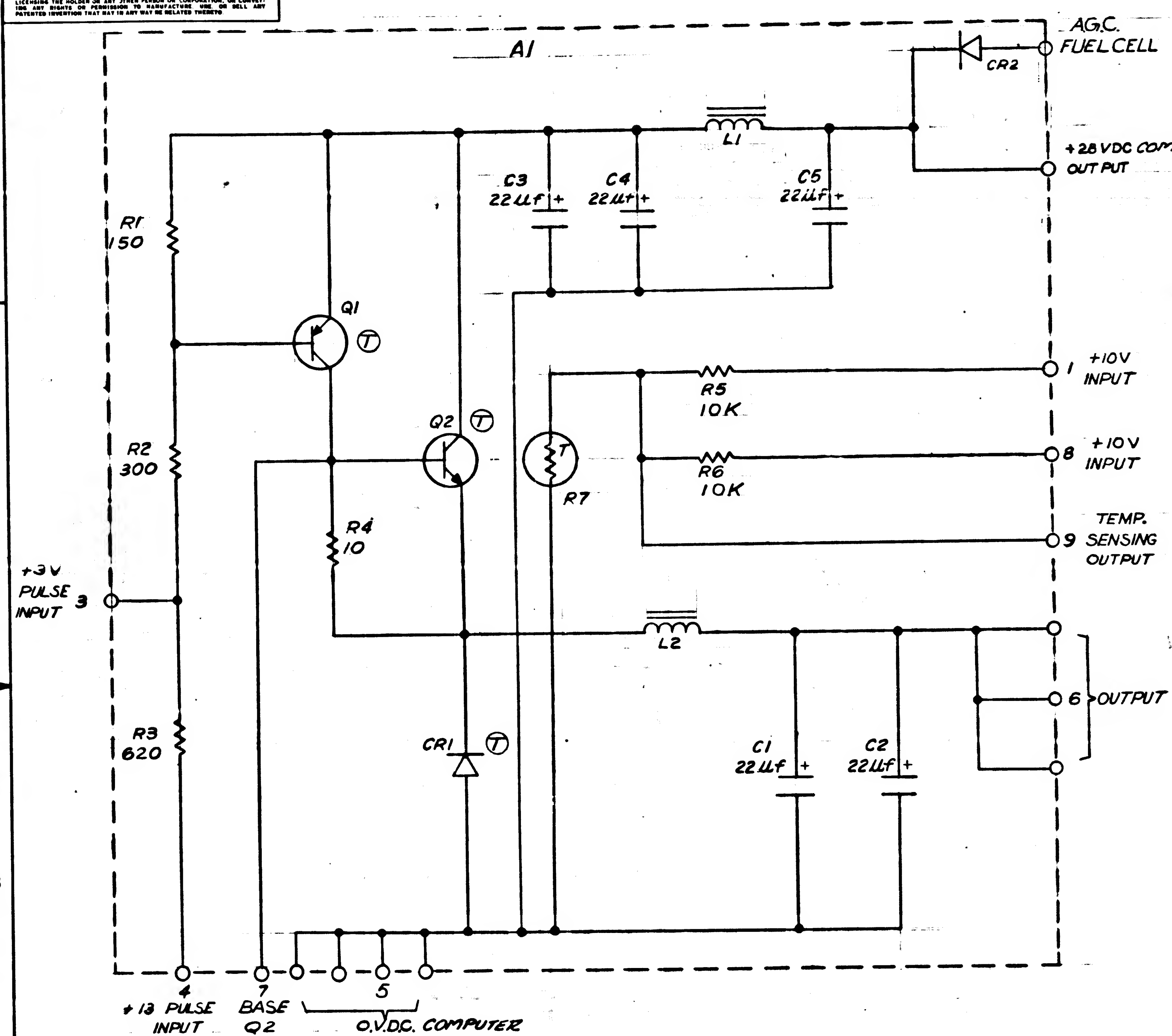
REF DES	PART NO.	DESCR	VALUE	TOL	RATING
C1	1006755-134	CAP	22uF		
C2	-134				
C3	-134				
C4	-134				
C5	-134		22uF		
C6	-133		18uF		
C7	-133		18uF		
C8	1006755-79	CAP	6.8uF		
CR1	1006791	DIODE			
CR2	1006791	DIODE			
L1	1006798	CHOKE	50uH		
L2	1006800	CHOKE	250uH		
R1	1006750-12	RES	150		
R2	1010389-43		300		
R3	1010389-51		620		
R4	1006788-6		10		
R5	1006750-56		10K		
R6	1006750-56	RES	10K		
R7	1006715-2	THERMISTOR	10K		
Q1	1006829	TSTR			
Q2	1006827	TSTR			

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CLARKSBURG, MARYLAND		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN BY: <i>Chadwick</i> DATE: 11-68		SCHEMATIC POWER SWITCH MODULE A.G.C. POWER SUPPLY	
CHECKED BY: <i>Diener</i> DATE: 1/19/69		CODE IDENT NO. SIZE D 1006097	
APPROVAL BY: <i>Chadwick</i> DATE: 1/19/69		NASA DRAWING NO.	
NASA APPROVAL BY: <i>Chadwick</i> DATE: 1/19/69		SCALE WT SHEET / OF /	
MIT APPROVAL BY: <i>Chadwick</i> DATE: 1/19/69			
NEXT ASSY	USED ON	APPLICATION	



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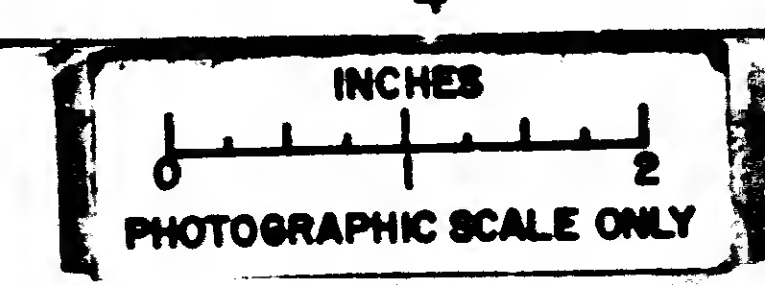
REV	DESCRIPTION	DATE	APPROVAL
A	REVISED AND UPGRADED TO CLASS A RELEASE PER TDRR 01248	10/10/63	W.K.
B	REVISED PER TDRR 0159	10/10/63	W.K.



REF DES	PART NO.	DESCR	VALUE	TOL	RATING
C1	1006755	CAP	22uF		
C2					
C3					
C4					
C5	1006755	CAP	22uF		
CR1	1006791	DIODE			
CR2	1006791	DIODE			
L1	1006798	CHOKE			
L2	1006800	CHOKE			
R1	1006750-12	RES	150		
R2	1010383-43		300		
R3	1010383-51		620		
R4	1006788-6		10		
R5	1006750-56		10 K		
R6	1006750-56	RES	10 K		
R7	1010434	THERMISTOR			
Q1	1006829	TSTR			
Q2	1006827	TSTR			

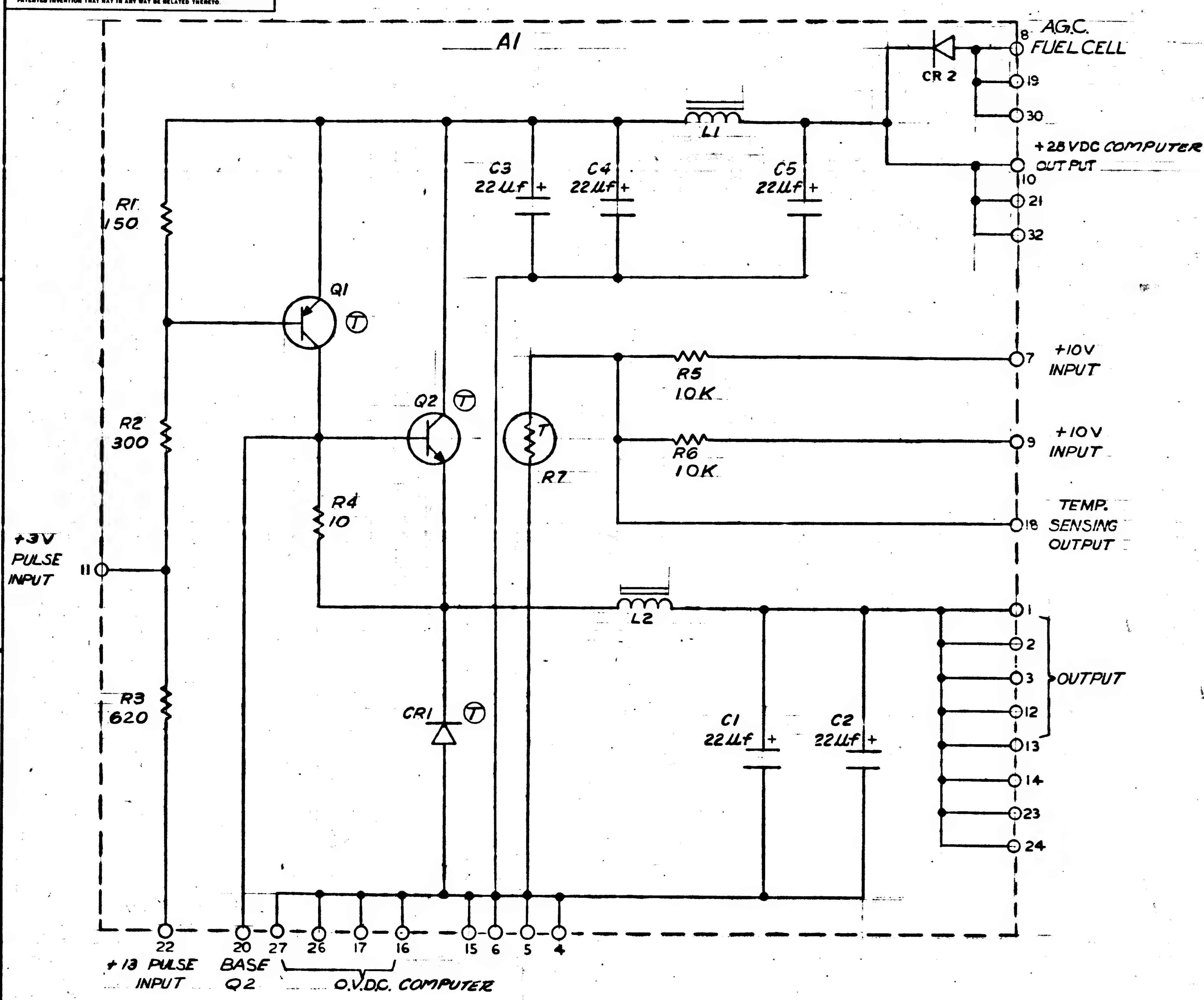
NOTES
1. UNLESS OTHERWISE SPECIFIED ALL RESISTOR VALUES ARE EXPRESSED IN OHMS

MASTER



QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
M I T INSTRUMENTATION LAB CAMBRIDGE MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN BY: <i>Charles</i> DATE: <i>11-63</i>		CHECKED BY: <i>Auger</i> DATE: <i>4/29/64</i>	
APPROVAL BY: <i>W.K.</i> DATE: <i>10/10/63</i>		APPROVAL BY: <i>W.K.</i> DATE: <i>10/10/63</i>	
HEAT TREATMENT		NASA APPROVAL BY: <i>W.K.</i> DATE: <i>10/10/63</i>	
NEXT ASSY USED ON		FINAL FINISH	
APPLICATION		MIT APPROVAL BY: <i>W.K.</i> DATE: <i>10/10/63</i>	
CODE IDENT NO. SIZE		NASA DRAWING NO.	
D		1006097	
SCALE		SHEET / OF /	

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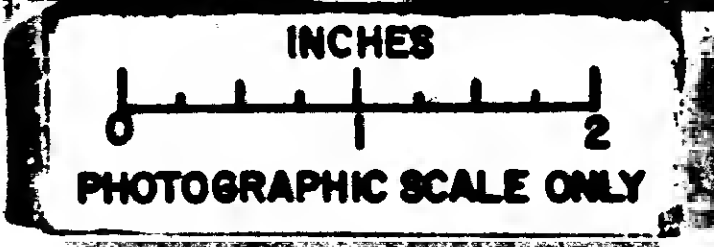
NOTES
 1. UNLESS OTHERWISE SPECIFIED ALL RESISTOR VALUES ARE EXPRESSED IN OHMS

REV	DESCRIPTION	DATE	APPROVAL
A	REVISED AND UPGRADED TO CLASS A RELEASE PER TDRR 01248	10/1/65	W.K.
B	REVISED PER TDRR 01459	10/1/65	W.K.
C	REVISED PER TDRR 01455	11/1/65	W.K.

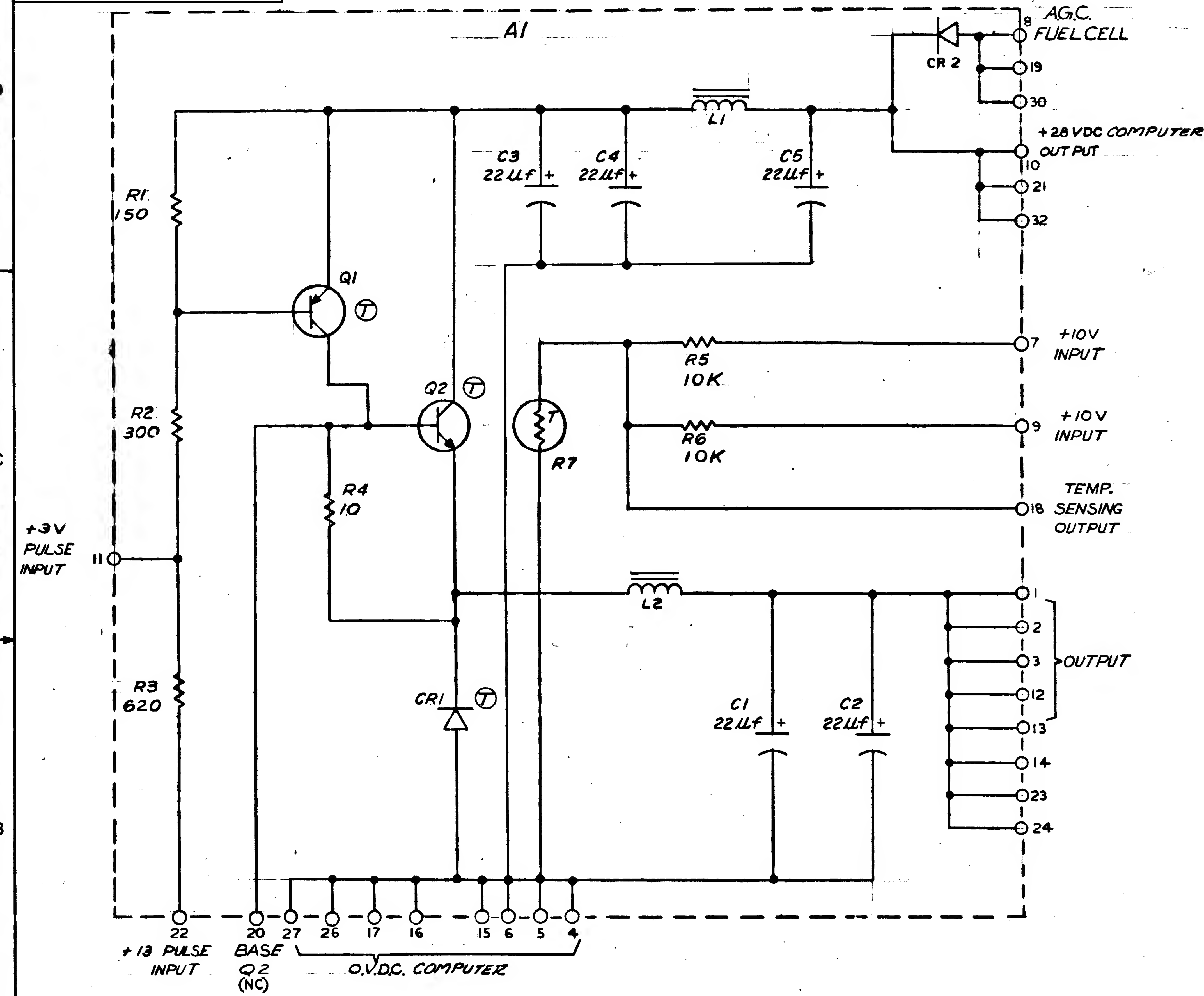
REF DES	PART NO.	DESCR	VALUE	TOL	RATING
C1	1006755	CAP	22UF		
C2					
C3					
C4					
C5	1006755	CAP	22UF		
CR1	1006791	DIODE			
CR2	1006791	DIODE			
L1	1006798	CHOKE			
L2	1006800	CHOKE			
R1	1006750-12	RES	150		
R2	1010389-43		300		
R3	1010389-51		620		
R4	1006788-6		10		
R5	1006750-56		10 K		
R6	1006750-56	RES	10 K		
R7	1010434	THERMISTOR			
Q1	1006829	TSTR			
Q2	1006827	TSTR			

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIN NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>E. O'Brien</i> DATE 11-1-65		SCHEMATIC POWER SWITCH MODULE AGC POWER SUPPLY	
CHECKED <i>E. O'Brien</i> 4/29/66		CODE IDENT NO. D SIZE 1006097	
APPROVAL <i>E. O'Brien</i> 4/29/66		NASA APPROVAL <i>E. O'Brien</i> 4/29/66	
MIT APPROVAL <i>E. O'Brien</i> 4/29/66		SCALE 1 WT 1 SHEET 1 OF 1	
NEXT ASSY	USED ON	FINAL FINISH	APPLICATION

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NOTES
1. UNLESS OTHERWISE SPECIFIED ALL RESISTOR VALUES ARE EXPRESSED IN OHMS, K INDICATES THOUSANDS OF OHMS

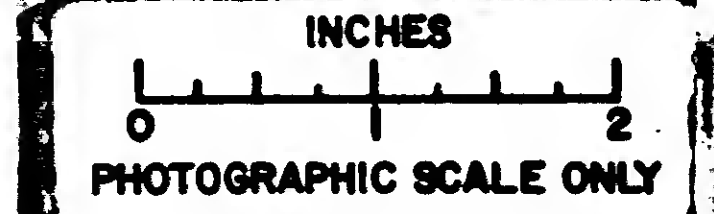
REV	DESCRIPTION	TDRR	DATE	APPROVAL
A	REVISED AND UPGRADED TO CLASS A RELEASE PER TDRR 01248		6/10/63	W.K.
B	REVISED PER TDRR 01459		7/1/63	W.K.
C	REVISED PER TDRR 04055		7/1/63	W.K.
D	REVISED PER TDRR 03131		7/1/63	W.K.

REF DES	PART NO.	DESCR	VALUE	TOL	RATING
C1	1006755-134	CAP	22uF		
C2					
C3					
C4					
C5	1006755-134	CAP	22uF		
CR1	1006791	DIODE			
CR2	1006791	DIODE			
L1	1006798	CHOKE	50MH		
L2	1006800	CHOKE	150MH		
R1	1006750-12	RES	150		
R2	1010389-43		300		
R3	1010389-31		620		
R4	1006788-6		10		
R5	1006750-56	RES	10 K		
R6	1006750-56	RES	10 K		
R7	1006715-2	THERMISTOR	10 K		
Q1	1006829	TSTR			
Q2	1006827	TSTR			

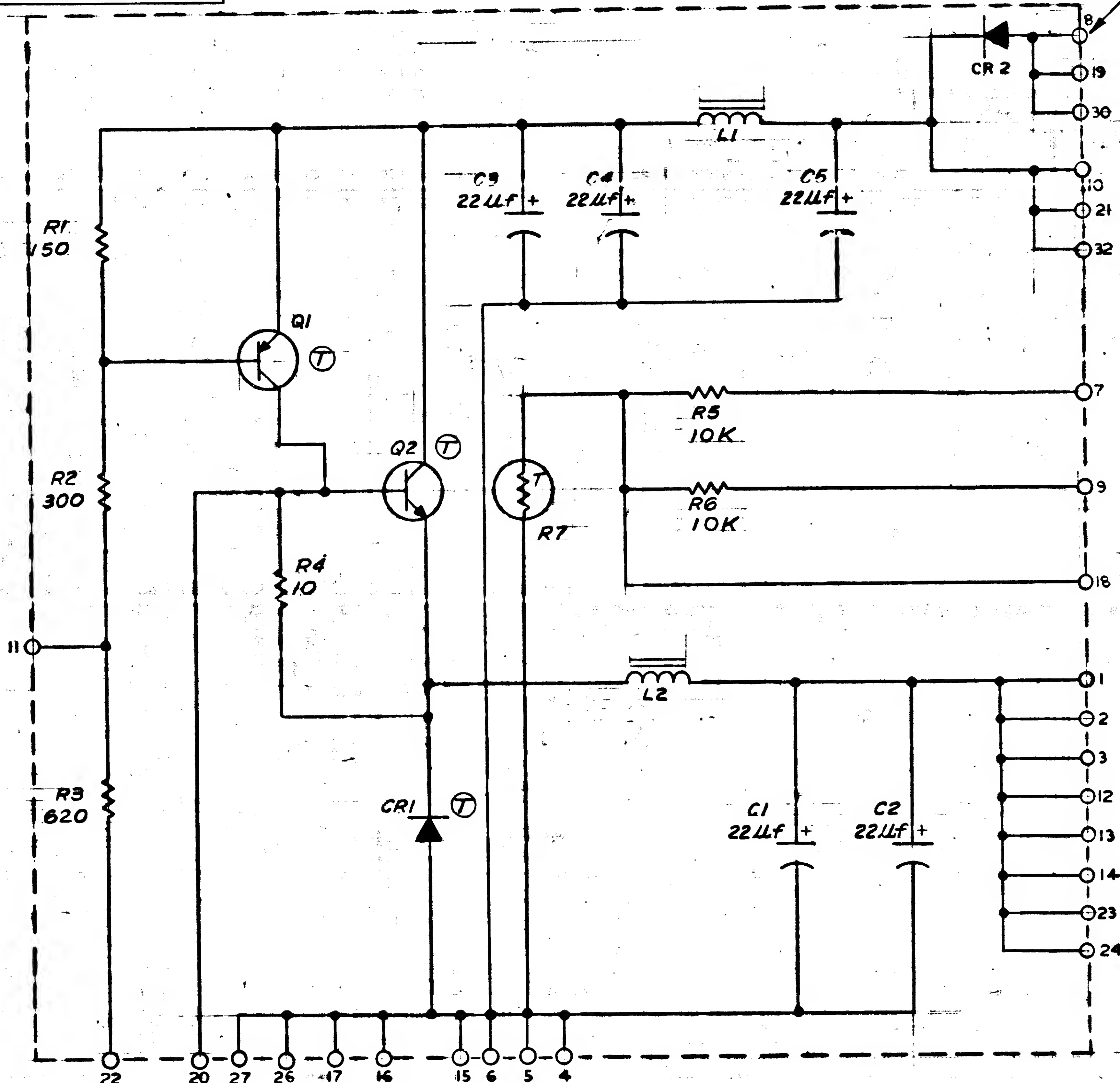
REF DWG: L MECHANICAL ASSY 1003113

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN BY: <i>Charles</i> DATE: <i>4-17-63</i>		SCHEMATIC POWER SWITCH MODULE A.G.C. POWER SUPPLY	
CHECKED BY: <i>C. Auger</i> DATE: <i>4/19/63</i>		CODE IDENT NO. D 1006097	
APPROVAL BY: <i>John C. Hill</i> DATE: <i>4/24/63</i>		SCALE WT SHEET / OF 1	
NASA APPROVAL BY: <i>John C. Hill</i> DATE: <i>4/24/63</i>		MIT APPROVAL BY: <i>W. J. ...</i> DATE: <i>2-4-63</i>	
NEXT ASSY	USED ON	FINAL FINISH	APPLICATION

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SEE TABLE FOR SIG DESIGNATION

NOTES

1. UNLESS OTHERWISE SPECIFIED ALL RESISTOR VALUES ARE EXPRESSED IN OHMS, K INDICATES THOUSANDS OF OHMS
2. N.C. INDICATES NO CONNECTION FOR MODULE IN THIS TRAY POSITION

PIN NO.	SIGNAL DESIGNATION		
	TRAY POS B2	TRAY POS B3	TRAY POS B4
8,19,30	N.C.	+28 B	+28A
10,21,32	+28 COM	+28 COM	+28 COM
7	B PLUS A	B PLUS A	B PLUS A
9	N.C.	N.C.	N.C.
18	RD 171	RD 172	RD 173
1,2,3,12,13,14	B PLUS B	+3B	+3B
23, 24	B PLUS A	+3A	+3A
4,5,6,15,16,17,26,27	OVDC	OVDC	OVDC
20	N.C.	BSQ2	BSQ2
22	+13PLS	N.C.	N.C.
11	N.C.	+3PLS	+3PLS

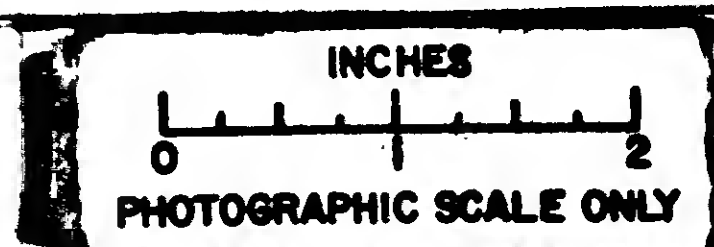
REF DWG: L MECHANICAL ASSY 1003113

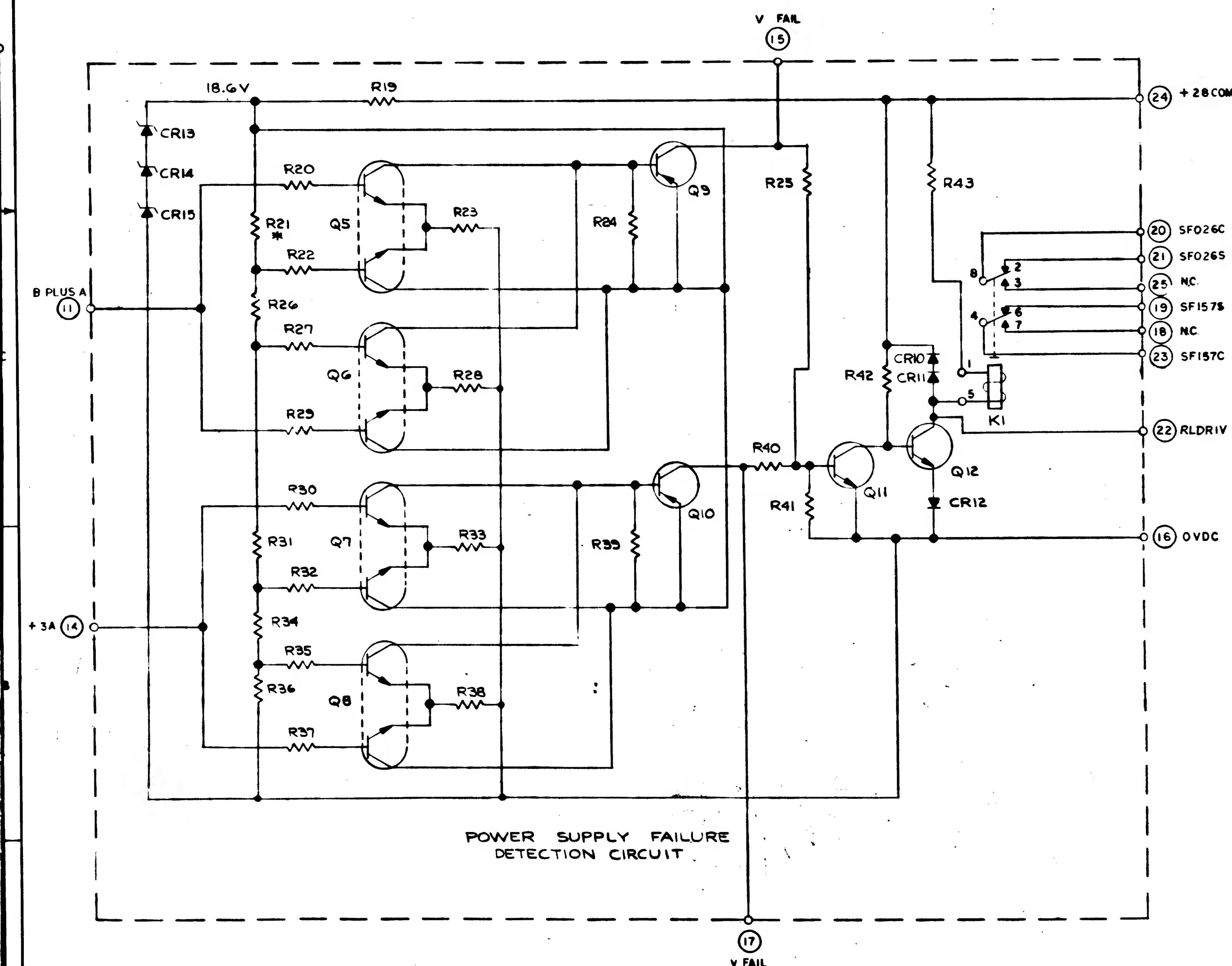
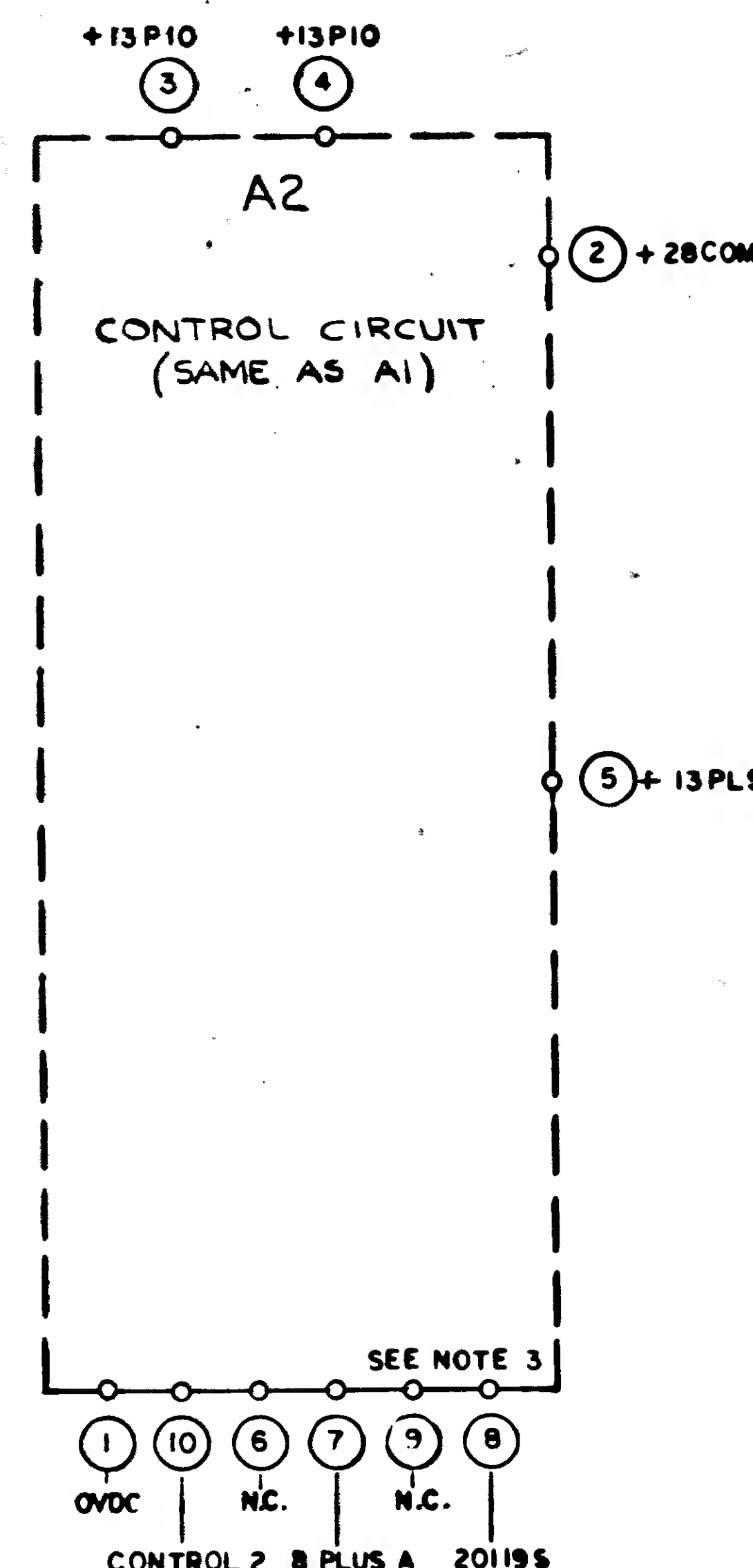
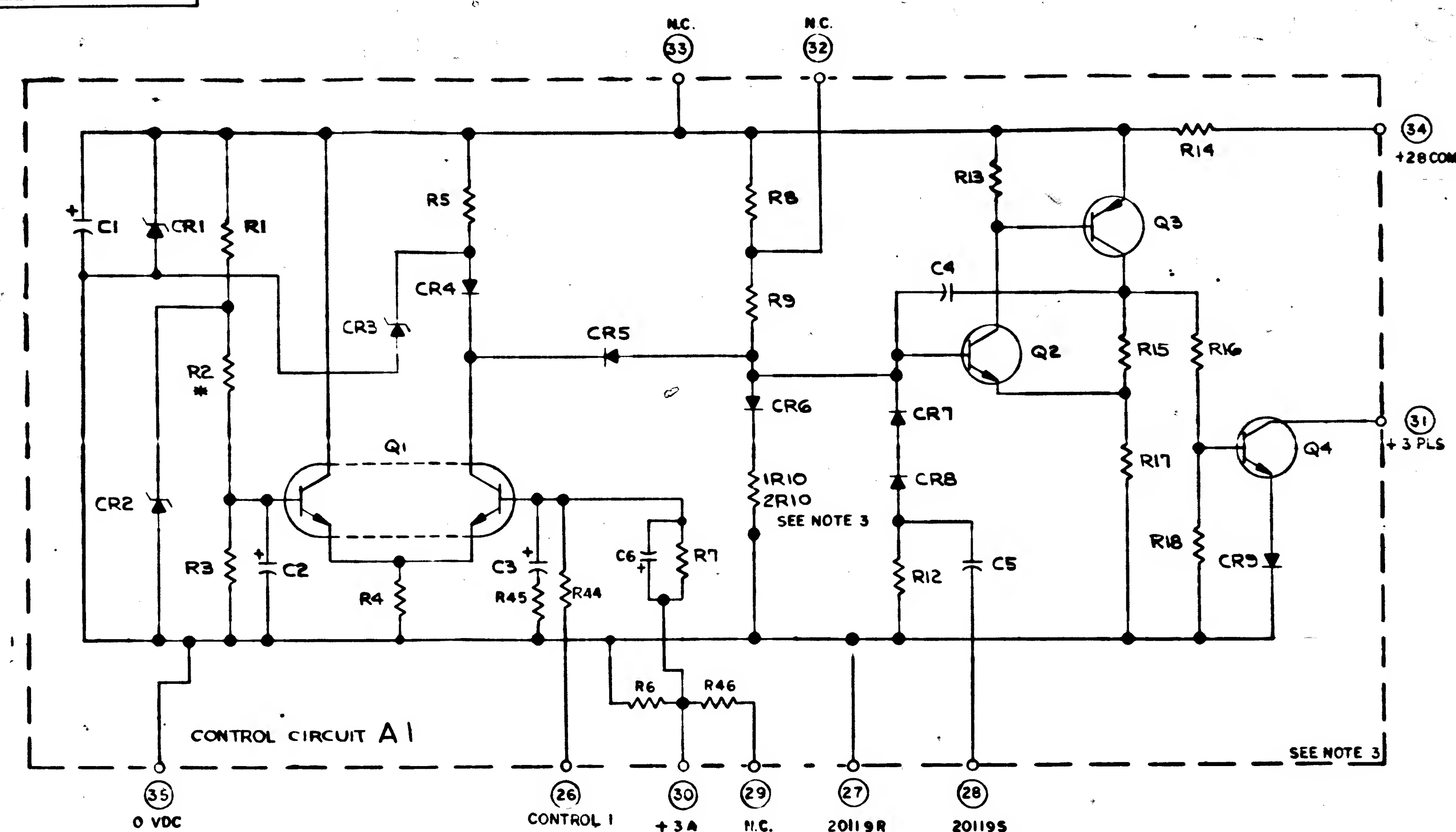
REF DES	PART NO.	DESCR	VALUE	TOL	RATING
C1	1006755-134	CAP	22uF		
C2					
C3					
C4					
C5	1006755-134	CAP	22uF		
CR1	1006791	DIODE			
CR2	1006791	DIODE			
L1	1006798	CHOKE	50MH		
L2	1006800	CHOKE	150MH		
R1	1006750-14	RES	150		
R2	1010389-45		300		
R3	1010389-51		620		
R4	1006788-6		10		
R5	1006750-56		10 K		
R6	1006750-56	RES	10 K		
R7	1006715-2	THERMISTOR	10 K		
Q1	1006829	TSTR			
Q2	1006827	TSTR			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	INSTRUMENTATION LAB
TOLERANCES ON FRACTIONS DECIMALS ANGLES	CAMBRIDGE, MASS.
DO NOT SCALE THIS DRAWING	DRAWN BY: <i>C. Auger</i> DATE: <i>4/20/66</i>
MATERIAL	CHECKED: <i>C. Auger</i> DATE: <i>4/20/66</i>
HEAT TREATMENT	APPROVAL: <i>C. Auger</i> DATE: <i>4/20/66</i>
FINISH FINISH	NASA APPROVAL: <i>C. Auger</i> DATE: <i>4/20/66</i>
APPLICATION	MT APPROVAL: <i>C. Auger</i> DATE: <i>4/20/66</i>

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER	
CAMBRIDGE, MASS.		HOUSTON, TEXAS	
SCHEMATIC		POWER SWITCH MODULE	
A.G.C. POWER SUPPLY		1006097	
CODE IDENT NO. SIZE		SCALE WT	
D		1	
SHEET / OF /			

MASTER





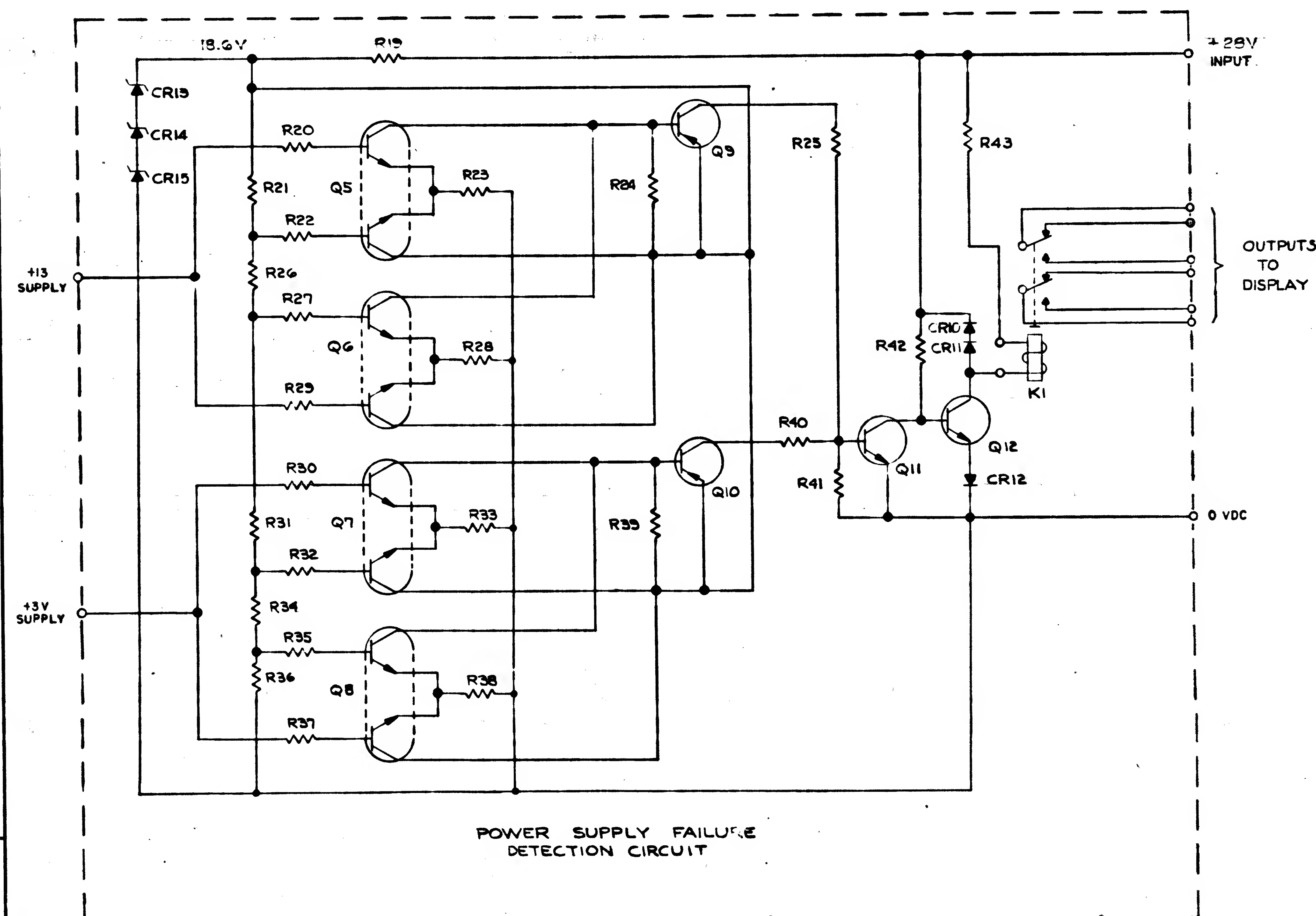
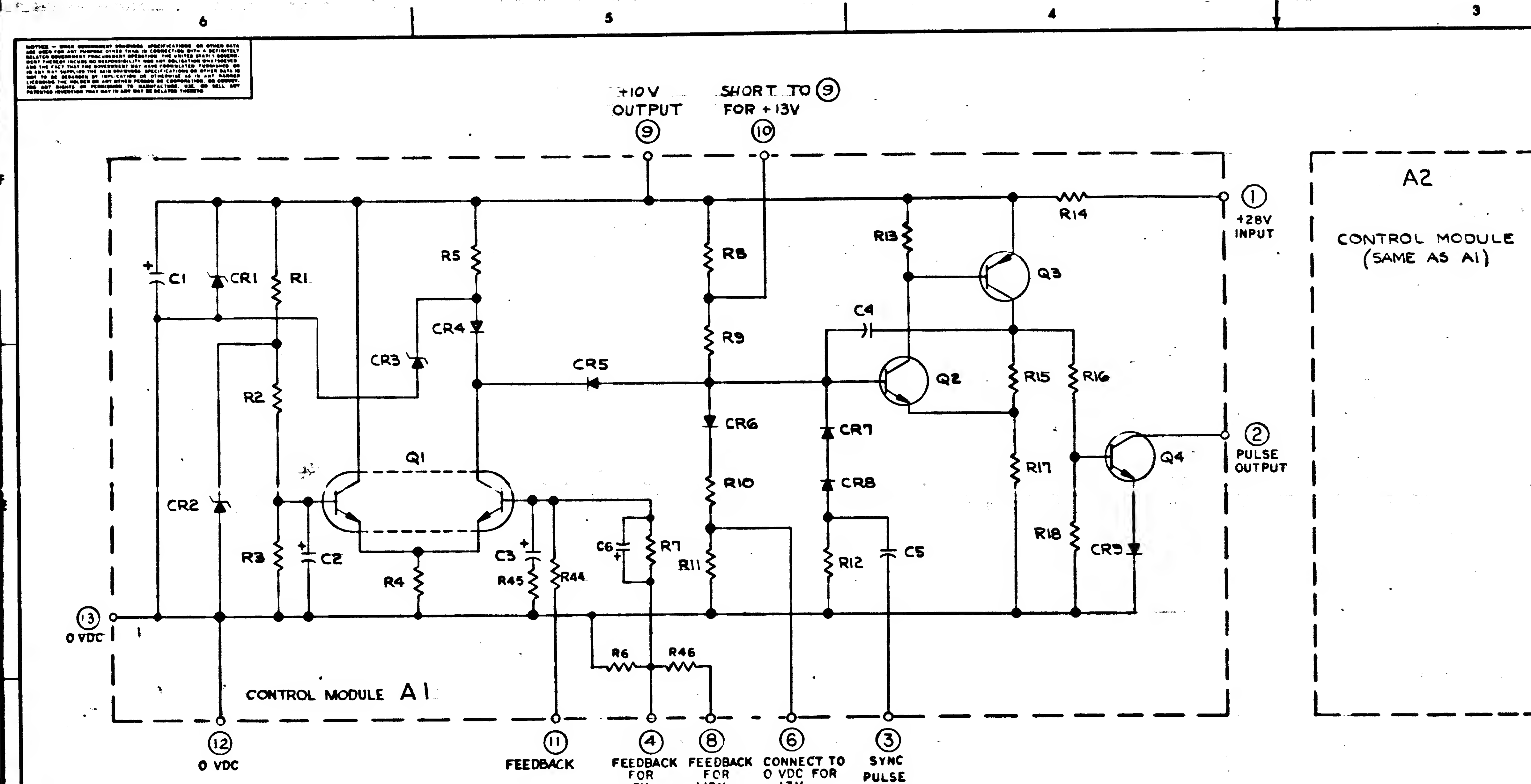
PART NO	VALUE
1006750-32	1000
-33	1100
-34	1200
-35	1300
-36	1500
-37	1600
-38	1800
-39	2000
-40	2200
-41	2400
-42	2700
-43	3000
-44	3300

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
C1	1006755-34	CAP.	22UF		
C2	1006755-26	CAP.	1.2UF		
C3	1006755-64	CAP.	0.39UF		
C4	1006793-30	CAP.	0056UF		
C5	1006777-24	CAP.	001UF		
C6	1006755-57	CAP.	0.1UF		
CR1	1006701	DIODE	10V	5%	
CR2	1006838	DIODE	6.2V		
CR3	1006838	DIODE	6.2V		
CR4	1006751	DIODE			
CR5	1006751	DIODE			
CR6	1006751	DIODE			
CR7	1006751	DIODE			
CR8	1006751	DIODE			
CR9	1006751	DIODE			
CR10	1006751	DIODE			
CR11	1006751	DIODE			
CR12	1006751	DIODE			
CR13	1006838	DIODE	6.2V		
CR14	1006838	DIODE	6.2V		
CR15	1006838	DIODE	6.2V		
K1	1006815-2	RELAY			
Q1	1010376-1	TSTR			
Q2	1006752	TSTR			
Q3	1006752	TSTR			
Q4	1006752	TSTR			
Q5	1010376	TSTR			
Q6	1010376	TSTR			
Q7	1010376	TSTR			
Q8	1010376	TSTR			
Q9	1006829	TSTR			
Q10	1006829	TSTR			
Q11	1006752	TSTR			
Q12	1006752	TSTR			
R1	1006750-24	RES	470Ω	2%	1/4 W
R2 *	1006750	RES	NE	2%	1/4 W
R3	1006750-39	RES	2000Ω	2%	1/4 W
R4	1006750-24	RES	470Ω	2%	1/4 W
R5	1006750-24	RES	470Ω	2%	1/4 W
R6	1006750-22	RES	390Ω	2%	1/4 W
R7	1006750-43	RES	300Ω	2%	1/4 W
R8	1006750-50	RES	5600Ω	2%	1/4 W
R9	1006750-60	RES	15K Ω	2%	1/4 W
R10	1006750-50	RES	10K Ω	2%	1/4 W
R210	1006750-70	RES	39KΩ	2%	1/4 W
R12	1006750-32	RES	1000Ω	2%	1/4 W
R13	1006750-32	RES	1300Ω	2%	1/4 W
R14	1010389-43	RES	300Ω	1%	3 W
R15	1006750-15	RES	200Ω	2%	1/4 W
R16	1006750-22	RES	390Ω	2%	1/4 W
R17	1006750-28	RES	680Ω	2%	1/4 W
R18	1006750-24	RES	470Ω	2%	1/4 W
R19	1006760-28	RES	680Ω	2%	1/2 W
R20	1006750-56	RES	10K Ω	2%	1/4 W
R21 *	1006750	RES	NE	2%	1/4 W
R22	1006750-56	RES	10K Ω	2%	1/4 W
R23	1006750-75	RES	62K Ω	2%	1/4 W
R24	1006750-56	RES	10K Ω	2%	1/4 W
R25	1006750-62	RES	18K Ω	2%	1/4 W
R26	1006750-39	RES	2000Ω	2%	1/4 W
R27	1006750-56	RES	10K Ω	2%	1/4 W
R28	1006750-75	RES	62K Ω	2%	1/4 W
R29	1006750-56	RES	10K Ω	2%	1/4 W
R30	1006750-56	RES	10K Ω	2%	1/4 W
R31	1006750-42	RES	2700Ω	2%	1/4 W
R32	1006750-56	RES	10K Ω	2%	1/4 W
R33	1006750-56	RES	10K Ω	2%	1/4 W
R34	1006750-25	RES	510 Ω	2%	1/4 W
R35	1006750-56	RES	10K Ω	2%	1/4 W
R36	1006750-32	RES	1000Ω	2%	1/4 W
R37	1006750-56	RES	10K Ω	2%	1/4 W
R38	1006750-56	RES	10K Ω	2%	1/4 W
R39	1006750-56	RES	10K Ω	2%	1/4 W
R40	1006750-62	RES	18K Ω	2%	1/4 W
R41	1006750-43	RES	3000Ω	2%	1/4 W
R42	1006760-56	RES	10K Ω	2%	1/2 W
R43	1006760-32	RES	1000Ω	2%	1/4 W
R44	1006750-32	RES	1000Ω	2%	1/4 W
R45	1006750-15	RES	200 Ω	2%	1/4 W
R46	1006750-85	RES	1300Ω	2%	1/4 W

REVISIONS			CASE # 100200
QTY	DESCRIPTION	DATE	APPROV
A	REVISED AND UPGRADED TO CLASS A RELEASE PER TDR 01248	6-6-83	7-6-83
B	REVISED PER TDR 01487	6-6-83	7-6-83
C	REVISED PER TDR 01583	6-6-83	7-6-83
D	REVISED PER TDR 03362	6-6-83	7-6-83
E	REVISED PER TDR 03466	6-6-83	7-6-83
F	REVISED PER TDR 03566	6-6-83	7-6-83
G	REVISED PER TDR 05642	7-6-83	7-6-83
H	REVISED PER TDR 07408	7-6-83	7-6-83

- NOTES:
1. MINIMUM VALUE TO BE DETERMINED AT TEST, AS SELECTED FROM TABLE I
 2. NC INDICATES NO CONNECTION
 3. PREFIX 1 ON SYMBOL NUMBERS REFERS TO CONTROL CIRCUIT A1.
PREFIX 2 ON SYMBOL NUMBERS REFERS TO CONTROL CIRCUIT A2.
WHERE NO PREFIX IS SHOWN THE VALUE APPLIES TO BOTH CIRCUITS.

QTY REQ		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION	
				LIST OF MATERIALS	
		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
		SCHEMATIC, CONTROL MODULE AGC POWER SUP			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm DO NOT SCALE THIS DRAWING MATERIAL		INSTRUMENTATION LAB DRAWN BY <u>W. H. H. H.</u> DATE <u>10/1/60</u> CHECKED <u>W. H. H. H.</u> APPROVAL <u>W. H. H. H.</u> NASA APPROVAL <u>W. H. H. H.</u> MET APPROVAL <u>W. H. H. H.</u>			
HEAT TREATMENT FRAM FINISH		CODE IDENT NO. <u>1006098</u> SIZE <u>E</u> NASA DRAWING NO. <u>1006098</u> SCALE <u>1" = 1"</u> WT <u>1</u> SHEET <u>1</u> OF <u>1</u>			
1003150 NEXT ASY USED ON AIRCRAFT					

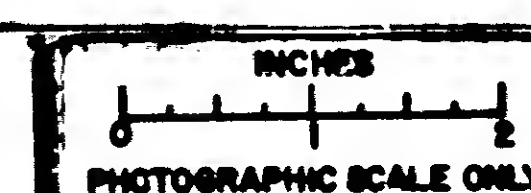


REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
C1	1010333	CAP.	22UF		
C2	1006755-26	CAP.	1.2UF		
C3	1006755-64	CAP.	0.39UF		
C4	1006844-6	CAP.	.0056UF		
C5	100677724	CAP.	.001UF		
C6	1006755-57	CAP.	0.1UF		
CR1	1010290-2	DIODE	10V	5%	
CR2	1006838	DIODE	6.2V	1%	
CR3	1006838	DIODE	6.2V	1%	
CR4	1006751	DIODE			
CR5	1006751	DIODE			
CR6	1006751	DIODE			
CR7	1006751	DIODE			
CR8	1006751	DIODE			
CR9	1006751	DIODE			
CR10	1006751	DIODE			
CR11	1006751	DIODE			
CR12	1006751	DIODE			
CR13	1006838	DIODE	6.2V	1%	
CR14	1010259-2	DIODE	6.2V	1%	
CR15	1010259-2	DIODE	6.2V	1%	
K1	1006815-2	RELAY			
Q1	1010376-1	TSTR			
Q2	1006752	TSTR			
Q3	1006753	TSTR			
Q4	1006752	TSTR			
Q5	1010376-1	TSTR			
Q6	1010376-1	TSTR			
Q7	1010376-1	TSTR			
Q8	1010376-1	TSTR			
Q9	1006804	TSTR			
Q10	1006804	TSTR			
Q11	1006752	TSTR			
Q12	1006752	TSTR			
R1	1006750-24	RES	470Ω	2%	1/4 W
R2	1006750-39	RES	2000Ω	2%	1/4 W
R3	1006750-39	RES	2000Ω	2%	1/4 W
R4	1006750-24	RES	470Ω	2%	1/4 W
R5	1006750-24	RES	470Ω	2%	1/4 W
R6	1006750-24	RES	470Ω	2%	1/4 W
R7	1006750-13	RES	3000Ω	2%	1/4 W
R8	1006750-50	RES	5600Ω	2%	1/4 W
R9	1006750-60	RES	15KΩ	2%	1/4 W
R10	1006750-55	RES	9100Ω	2%	1/4 W
R11	1006750-66	RES	27KΩ	2%	1/4 W
R12	1006750-32	RES	1000Ω	2%	1/4 W
R13	1006750-32	RES	1000Ω	2%	1/4 W
R14	1010389-43	RES	300Ω	2%	1/4 W
R15	1006750-15	RES	200Ω	2%	1/4 W
R16	1006750-22	RES	390Ω	2%	1/4 W
R17	1006750-28	RES	680Ω	2%	1/4 W
R18	1006750-24	RES	470Ω	2%	1/4 W
R19	1006750-29	RES	750Ω	2%	1/4 W
R20	1006750-54	RES	10KΩ	2%	1/4 W
R21	1006750-36	RES	1500Ω	2%	1/4 W
R22	1006750-54	RES	10KΩ	2%	1/4 W
R23	1006750-15	RES	22KΩ	2%	1/4 W
R24	1006750-54	RES	10KΩ	2%	1/4 W
R25	1006750-62	RES	18KΩ	2%	1/4 W
R26	1006750-42	RES	2700Ω	2%	1/4 W
R27	1006750-54	RES	10KΩ	2%	1/4 W
R28	1006750-15	RES	62KΩ	2%	1/4 W
R29	1006750-54	RES	10KΩ	2%	1/4 W
R30	1006750-54	RES	10KΩ	2%	1/4 W
R31	1006750-44	RES	3300Ω	2%	1/4 W
R32	1006750-54	RES	10KΩ	2%	1/4 W
R33	1006750-54	RES	10KΩ	2%	1/4 W
R34	1006750-21	RES	620Ω	2%	1/4 W
R35	1006750-54	RES	10KΩ	2%	1/4 W
R36	1006750-34	RES	1200Ω	2%	1/4 W
R37	1006750-54	RES	10KΩ	2%	1/4 W
R38	1006750-54	RES	10KΩ	2%	1/4 W
R39	1006750-54	RES	10KΩ	2%	1/4 W
R40	1006750-22	RES	18KΩ	2%	1/4 W
R41	1006750-44	RES	3300Ω	2%	1/4 W
R42	1006750-54	RES	10KΩ	2%	1/4 W
R43	1006750-32	RES	1000Ω	2%	1/4 W
R44	1006750-32	RES	1000Ω	2%	1/4 W
R45	1006750-15	RES	200Ω	2%	1/4 W
R46	1006750-36	RES	1500Ω	2%	1/4 W

REV	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TORR	5-9-63	WK
	REVISED AND UPGRADED TO CLASS A RELEASE PER TORR 1249		

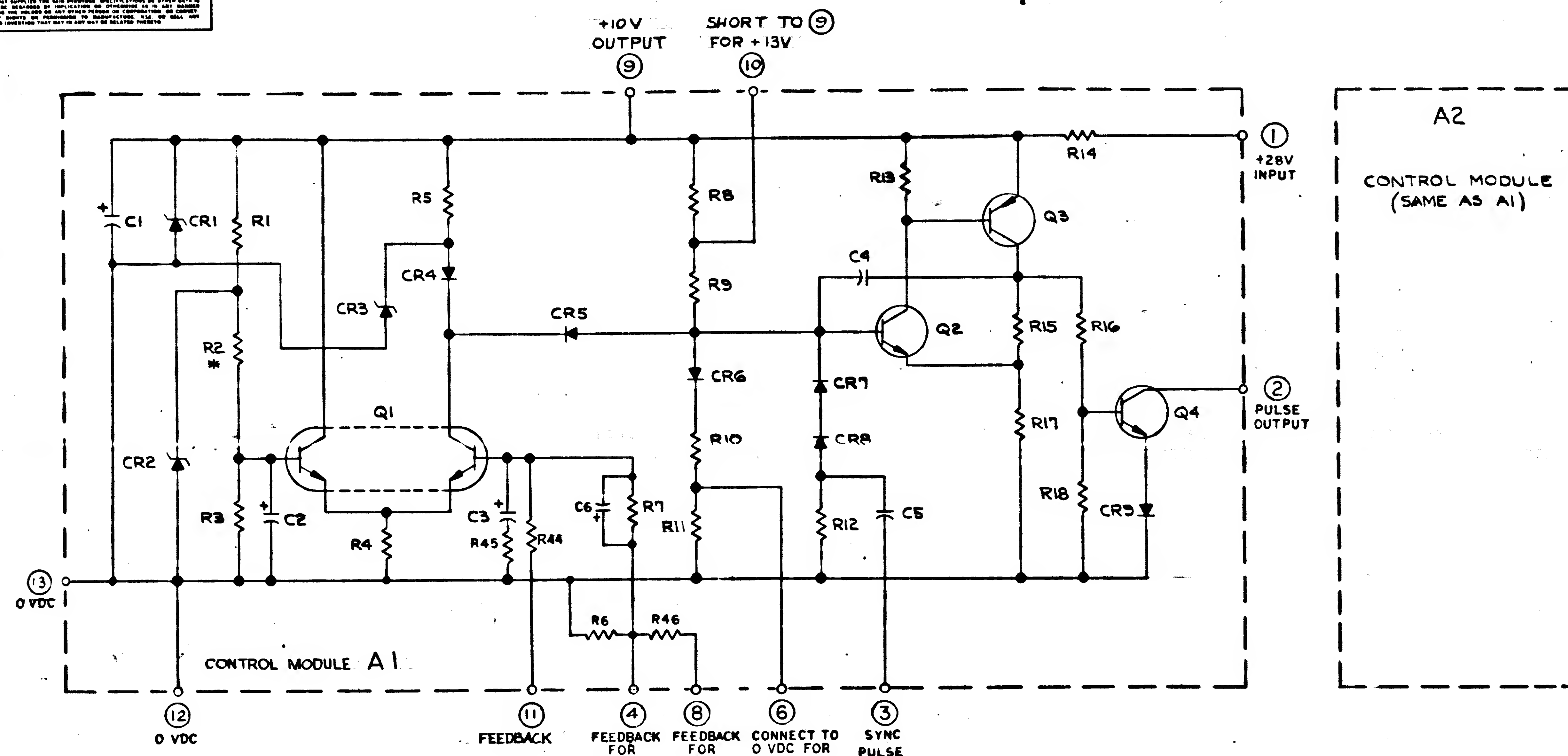
QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIG NO
LIST OF MATERIALS						
INSTRUMENTATION LAB MANNED SPACECRAFT CENTER HOUSTON, TEXAS CONTROL STICK AGC. SWITCHING REGULATOR						
DRAWN BY		CHECKED BY		APPROVED BY		DATE
NEXT ASSY		USED ON		FINAL FREE		APPLICATION
SCALE		WT		SHEET 1 OF 1		

MASTER



1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
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32. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
33. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
34. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
35. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
36. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
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41. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
42. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
43. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
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48. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
49. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.
50. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.

REV	DESCRIPTION	DATE	APPROVAL
A	REVISED AND UPGRADED TO CLASS A RELEASE PER DRR	4-63	1006098
B	REVISED PER DRR 0-157	4-63	1006098



A2
CONTROL MODULE
(SAME AS A1)

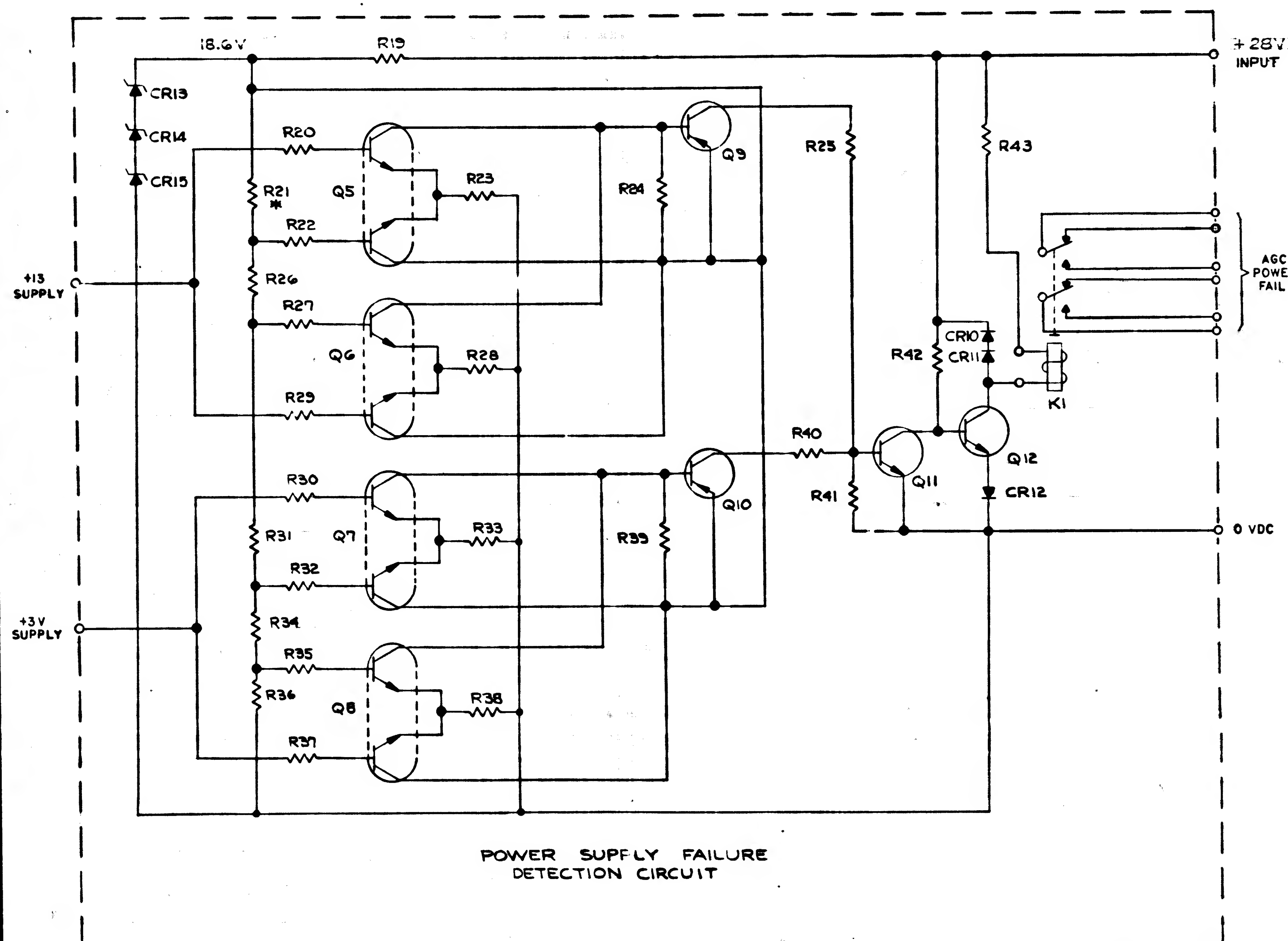


TABLE 1

PART NO	VALUE
1006750-32	1000
-33	1100
-34	1200
-35	1300
-36	1500
-37	1600
-38	1800
-39	2000
-40	2200
-41	2400
-42	2700
-43	3000
-44	3300

NOTES:
* 1 NOMINAL VALUE, TO BE DETERMINED AT TEST, AS SELECTED FROM TABLE 1

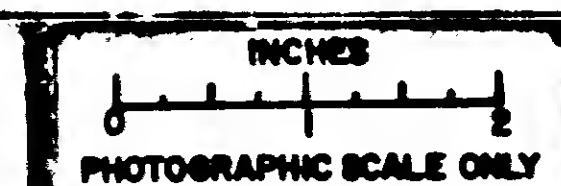
REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
C1	1006755-26	CAP.	22UF		
C2	1006755-26	CAP.	1.2UF		
C3	1006755-64	CAP.	0.39UF		
C4	1006793	CAP.	0.056UF		
C5	00677724	CAP.	0.01UF		
C6	1006755-57	CAP.	0.1UF		

CR1	1006701	DIODE	10V	5%	
CR2	1006838	DIODE	6.2V		
CR3	1006838	DIODE	6.2V		
CR4	1006751	DIODE			
CR5	1006751	DIODE			
CR6	1006751	DIODE			
CR7	1006751	DIODE			
CR8	006751	DIODE			
CR9	1006751	DIODE			
CR10	1006751	DIODE			
CR11	1006791	DIODE			
CR12	1006751	DIODE			
CR13	1006838	DIODE	6.2V		
CR14	1006838	DIODE	6.2V		
CR15	1006838	DIODE	6.2V		
K1	1006815-2	RELAY			

Q1	1010376-1	TSTR			
Q2	006752	TSTR			
Q3	006753	TSTR			
Q4	1006752	TSTR			
Q5	1010376-1	TSTR			
Q6	1010376-1	TSTR			
Q7	1010376-1	TSTR			
Q8	1010376-1	TSTR			
Q9	1006829	TSTR			
Q10	1006829	TSTR			
Q11	1006752	TSTR			
Q12	1006752	TSTR			

R1	1006750-24	RES	470Ω	2%	1/4 W
R2	1006750	RES	NE	2%	1/4 W
R3	1006750-33	RES	2000Ω	2%	1/4 W
R4	1006750-24	RES	470Ω	2%	1/4 W
R5	1006750-24	RES	470Ω	2%	1/4 W
R6	1006750-24	RES	470Ω	2%	1/4 W
R7	1006750-43	RES	3000Ω	2%	1/4 W
R8	1006750-50	RES	5600Ω	2%	1/4 W
R9	1006750-60	RES	15KΩ	2%	1/4 W
R10	1006750-55	RES	9100Ω	2%	1/4 W
R11	1006750-66	RES	27KΩ	2%	1/4 W
R12	1006750-32	RES	1000Ω	2%	1/4 W
R13	1006750-32	RES	1000Ω	2%	1/4 W
R14	1010389-43	RES	300Ω	2%	1/4 W
R15	1006750-15	RES	200Ω	2%	1/4 W
R16	1006750-22	RES	390Ω	2%	1/4 W
R17	1006750-28	RES	680Ω	2%	1/4 W
R18	1006750-24	RES	470Ω	2%	1/4 W
R19	1006760-29	RES	750Ω	2%	1/2 W
R20	1006750-56	RES	10KΩ	2%	1/4 W
R21	1006750	RES	NE	2%	1/4 W
R22	1006750-54	RES	10KΩ	2%	1/4 W
R23	1006750-15	RES	22KΩ	2%	1/4 W
R24	1006750-56	RES	10KΩ	2%	1/4 W
R25	1006750-62	RES	18KΩ	2%	1/4 W
R26	1006750-42	RES	2700Ω	2%	1/4 W
R27	1006750-56	RES	10KΩ	2%	1/4 W
R28	1006750-15	RES	62KΩ	2%	1/4 W
R29	1006750-56	RES	10KΩ	2%	1/4 W
R30	1006750-54	RES	10KΩ	2%	1/4 W
R31	1006750-44	RES	3300Ω	2%	1/4 W
R32	1006750-56	RES	10KΩ	2%	1/4 W
R33	1006750-56	RES	10KΩ	2%	1/4 W
R34	1006750-27	RES	620Ω	2%	1/4 W
R35	1006750-56	RES	10KΩ	2%	1/4 W
R36	1006750-34	RES	1200Ω	2%	1/4 W
R37	1006750-56	RES	10KΩ	2%	1/4 W
R38	1006750-56	RES	10KΩ	2%	1/4 W
R39	1006750-56	RES	10KΩ	2%	1/4 W
R40	1006750-62	RES	18KΩ	2%	1/4 W
R41	1006750-44	RES	3300Ω	2%	1/4 W
R42	1006760-56	RES	10KΩ	2%	1/2 W
R43	1006760-32	RES	1000Ω	2%	1/2 W
R44	106750-32	RES	1000Ω	2%	1/4 W
R45	1006750-15	RES	200Ω	2%	1/4 W
R46	1006750-36	RES	1500Ω	2%	1/4 W

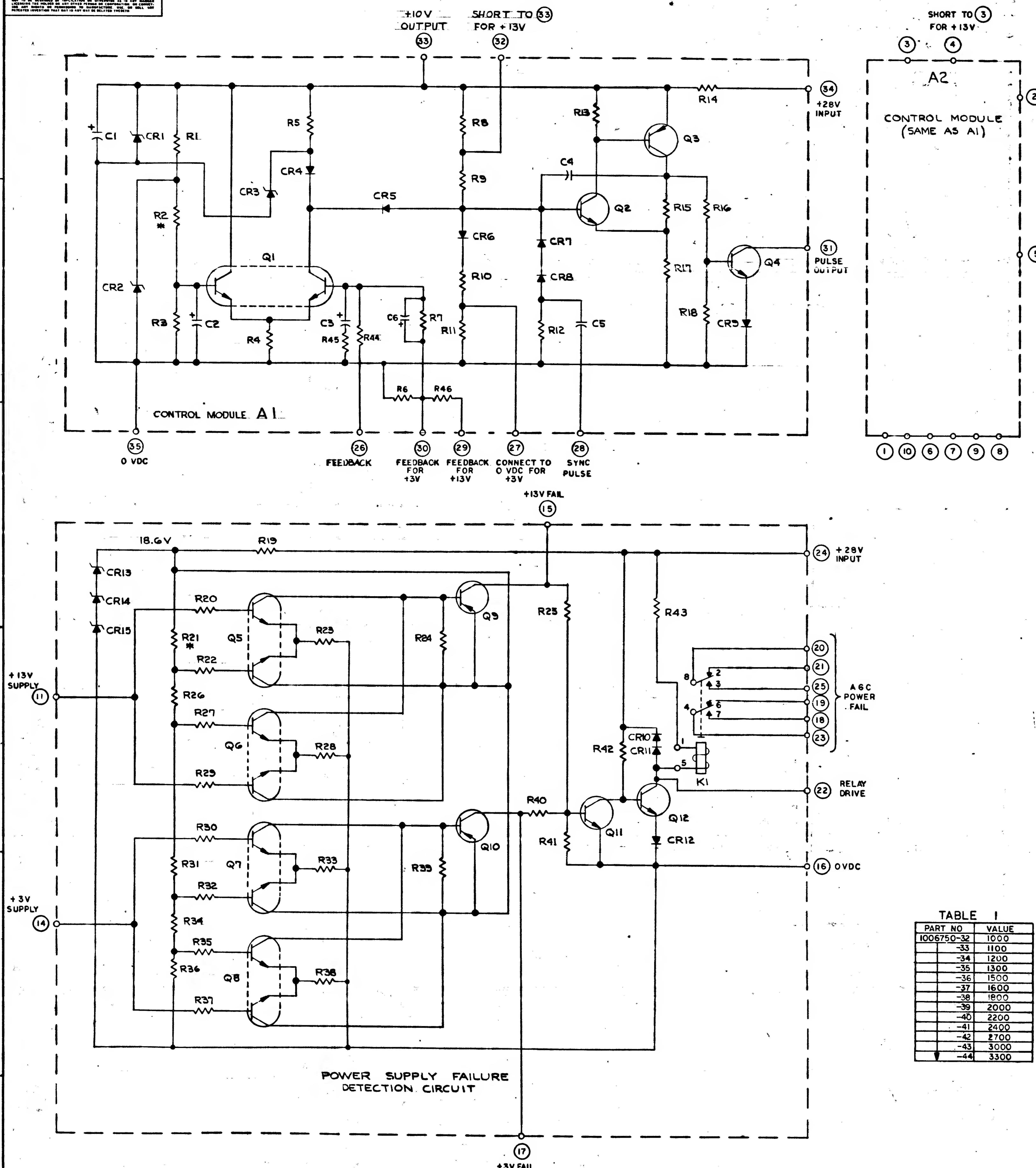
MASTER



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES OR FRACTIONS	DECIMALS	ANGLES
DO NOT SCALE THIS DRAWING		
MATERIAL		
HEAT TREATMENT		
FINISH		
APPLICATION		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FRG NO
		LIST OF MATERIALS	
		INSTRUMENTATION LAB HOUSTON, TEXAS	
		CONTROL STICK AGC SWITCHING REGULATOR	
		NASA DRAWING NO. 1006098	
		SCALE	
		SHEET 1 OF 1	

THIS DRAWING IS THE PROPERTY OF NASA. IT IS TO BE USED FOR THE PURPOSES SPECIFIED IN THE CONTRACT. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM NASA.



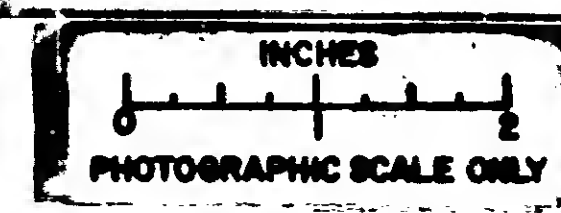
NOTES:
1. NOMINAL VALUE TO BE DETERMINED AT TEST, AS SELECTED FROM TABLE I

TABLE I

PART NO.	VALUE
1006750-32	10.0
33	100
34	1200
35	1300
36	1500
37	1600
38	1800
39	2000
40	2200
41	2400
42	2700
43	3000
44	3300

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
C1	1006755	CAP.	22UF		
C2	1006755-26	CAP.	12UF		
C3	1006755-64	CAP.	0.39UF		
C4	1006793	CAP.	0.056UF		
C5	100677724	CAP.	0.001UF		
C6	1006755-57	CAP.	0.1UF		
CR1	1006701	DIODE	10V	5%	
CR2	1006838	DIODE	6.2V		
CR3	1006838	DIODE	6.2V		
CR4	1006751	DIODE			
CR5	1006751	DIODE			
CR6	1006751	DIODE			
CR7	1006751	DIODE			
CR8	1006751	DIODE			
CR9	1006751	DIODE			
CR10	1006751	DIODE			
CR11	1006751	DIODE			
CR12	1006751	DIODE			
CR13	1006838	DIODE	6.2V		
CR14	1006838	DIODE	6.2V		
CR15	1006838	DIODE	6.2V		
K1	1006815-2	RELAY			
Q1	1010376-1	TSTR			
Q2	1006753	TSTR			
Q3	1006753	TSTR			
Q4	1006752	TSTR			
Q5	1010376-1	TSTR			
Q6	1010376-1	TSTR			
Q7	1010376-1	TSTR			
Q8	1010376-1	TSTR			
Q9	1006829	TSTR			
Q10	1006829	TSTR			
Q11	1006752	TSTR			
Q12	1006752	TSTR			
R1	1006750-24	RES	470.0	2%	1/4W
R2	1006750	RES	NE	2%	1/4W
R3	1006750-35	RES	2000.0	2%	1/4W
R4	1006750-24	RES	470.0	2%	1/4W
R5	1006750-24	RES	470.0	2%	1/4W
R6	1006750-24	RES	470.0	2%	1/4W
R7	1006750-43	RES	3000.0	2%	1/4W
R8	1006750-50	RES	5600.0	2%	1/4W
R9	1006750-60	RES	15K.0	2%	1/4W
R10	1006750-55	RES	9100.0	2%	1/4W
R11	1006750-66	RES	27K.0	2%	1/4W
R12	1006750-32	RES	1000.0	2%	1/4W
R13	1006750-32	RES	1000.0	2%	1/4W
R14	1010389-43	RES	300.0	2%	1/4W
R15	1006750-15	RES	200.0	2%	1/4W
R16	1006750-22	RES	330.0	2%	1/4W
R17	1006750-28	RES	680.0	2%	1/4W
R18	1006750-24	RES	470.0	2%	1/4W
R19	1006760-29	RES	750.0	2%	1/4W
R20	1006750-56	RES	10K.0	2%	1/4W
R21	1006750	RES	NE	2%	1/4W
R22	1006750-56	RES	10K.0	2%	1/4W
R23	1006750-15	RES	62K.0	2%	1/4W
R24	1006750-56	RES	10K.0	2%	1/4W
R25	1006750-62	RES	18K.0	2%	1/4W
R26	1006750-42	RES	2700.0	2%	1/4W
R27	1006750-56	RES	10K.0	2%	1/4W
R28	1006750-15	RES	62K.0	2%	1/4W
R29	1006750-56	RES	10K.0	2%	1/4W
R30	1006750-56	RES	10K.0	2%	1/4W
R31	1006750-44	RES	3300.0	2%	1/4W
R32	1006750-56	RES	10K.0	2%	1/4W
R33	1006750-56	RES	10K.0	2%	1/4W
R34	1006750-21	RES	620.0	2%	1/4W
R35	1006750-56	RES	10K.0	2%	1/4W
R36	1006750-34	RES	1200.0	2%	1/4W
R37	1006750-56	RES	10K.0	2%	1/4W
R38	1006750-56	RES	10K.0	2%	1/4W
R39	1006750-56	RES	10K.0	2%	1/4W
R40	1006750-62	RES	18K.0	2%	1/4W
R41	1006750-44	RES	3300.0	2%	1/4W
R42	1006760-56	RES	10K.0	2%	1/4W
R43	1006760-32	RES	1000.0	2%	1/2W
R44	1006750-32	RES	1000.0	2%	1/4W
R45	1006750-15	RES	200.0	2%	1/4W
R46	1006750-36	RES	1500.0	2%	1/4W

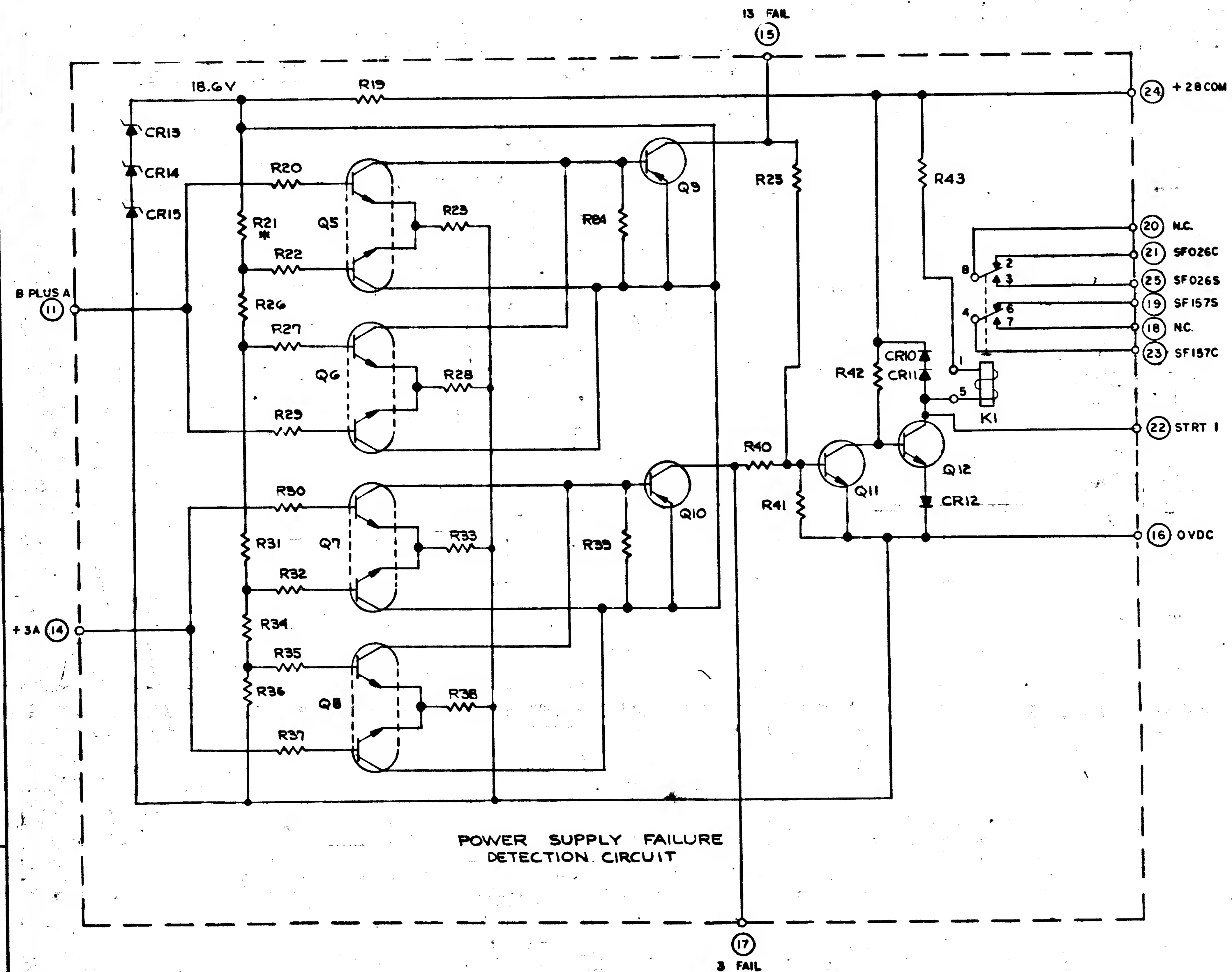
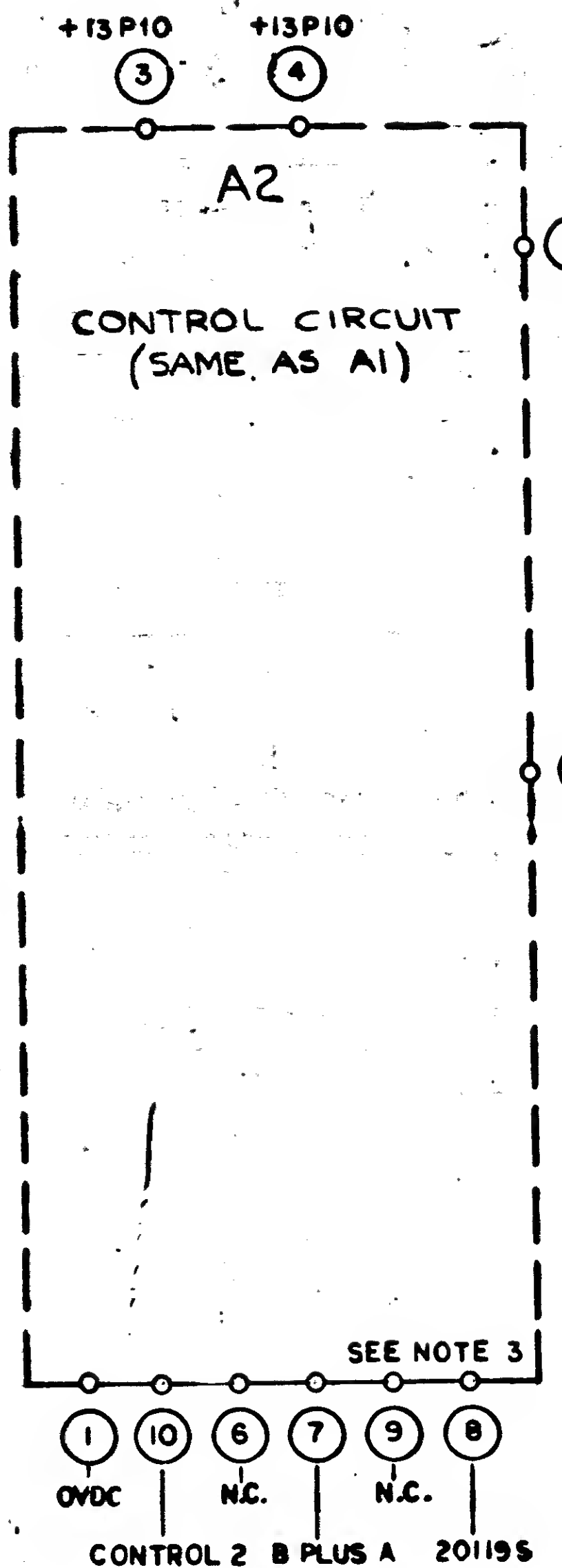
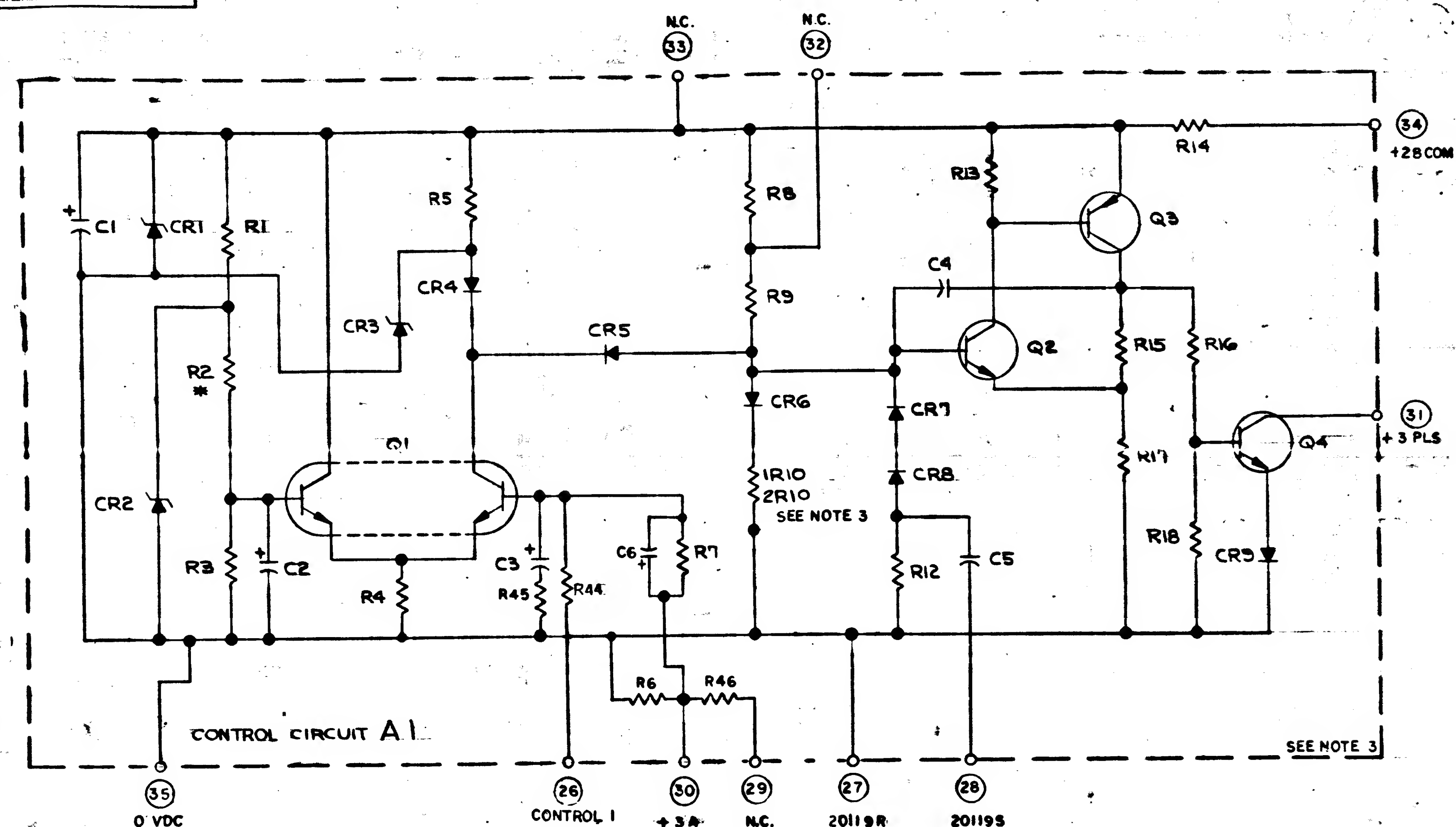
MASTER



REV	DESCRIPTION	DATE	APPROVAL
A	REVISED AND UPGRADED TO CLASS A RELEASE PER TDR	02/84	W. J. [Signature]
B	REVISED PER TDR 01/87	01/87	W. J. [Signature]
C	REVISED PER TDR 02/88	02/88	W. J. [Signature]

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG NO.
LIST OF MATERIALS			
INSTRUMENTATION LAB CHECKED: [Signature] DATE: 02/84 APPROVAL: [Signature] DATE: 02/84 NASA APPROVAL: [Signature] DATE: 02/84		MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC CONTROL MODULE AGC POWER SUPPLY	
NEXT ASBY USED ON APPLICATION		CODE IDENT NO. E SIZE 1006098 SCALE 1 OF 1	

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ON FRACTIONS: DECIMALS: ANGLES: DO NOT SCALE THIS DRAWING. MATERIAL: HEAT TREATMENT: FINISH: APPLICATION: NEXT ASSY: USED ON: PHOTOGRAPHIC SCALE ONLY



NOTES:
1. NOMINAL VALUE TO BE DETERMINED AT TEST, AS SELECTED FROM TABLE I.
2. N.C. INDICATES NO CONNECTION.
3. PREFIX 1 ON SYMBOL NUMBERS REFERS TO CONTROL CIRCUIT A1.
4. PREFIX 2 ON SYMBOL NUMBERS REFERS TO CONTROL CIRCUIT A2.
WHERE NO PREFIX IS SHOWN THE VALUE APPLIES TO BOTH CIRCUITS.

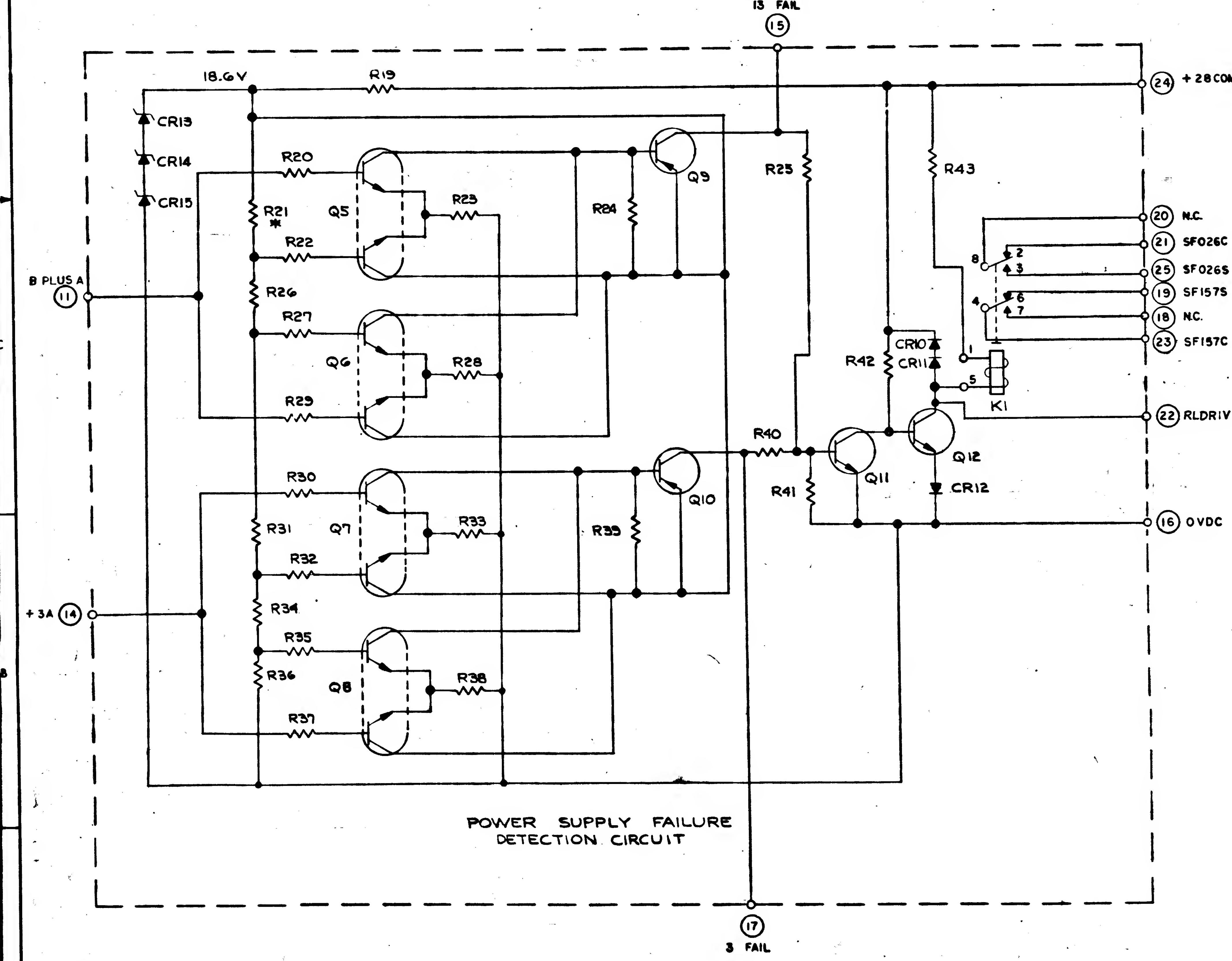
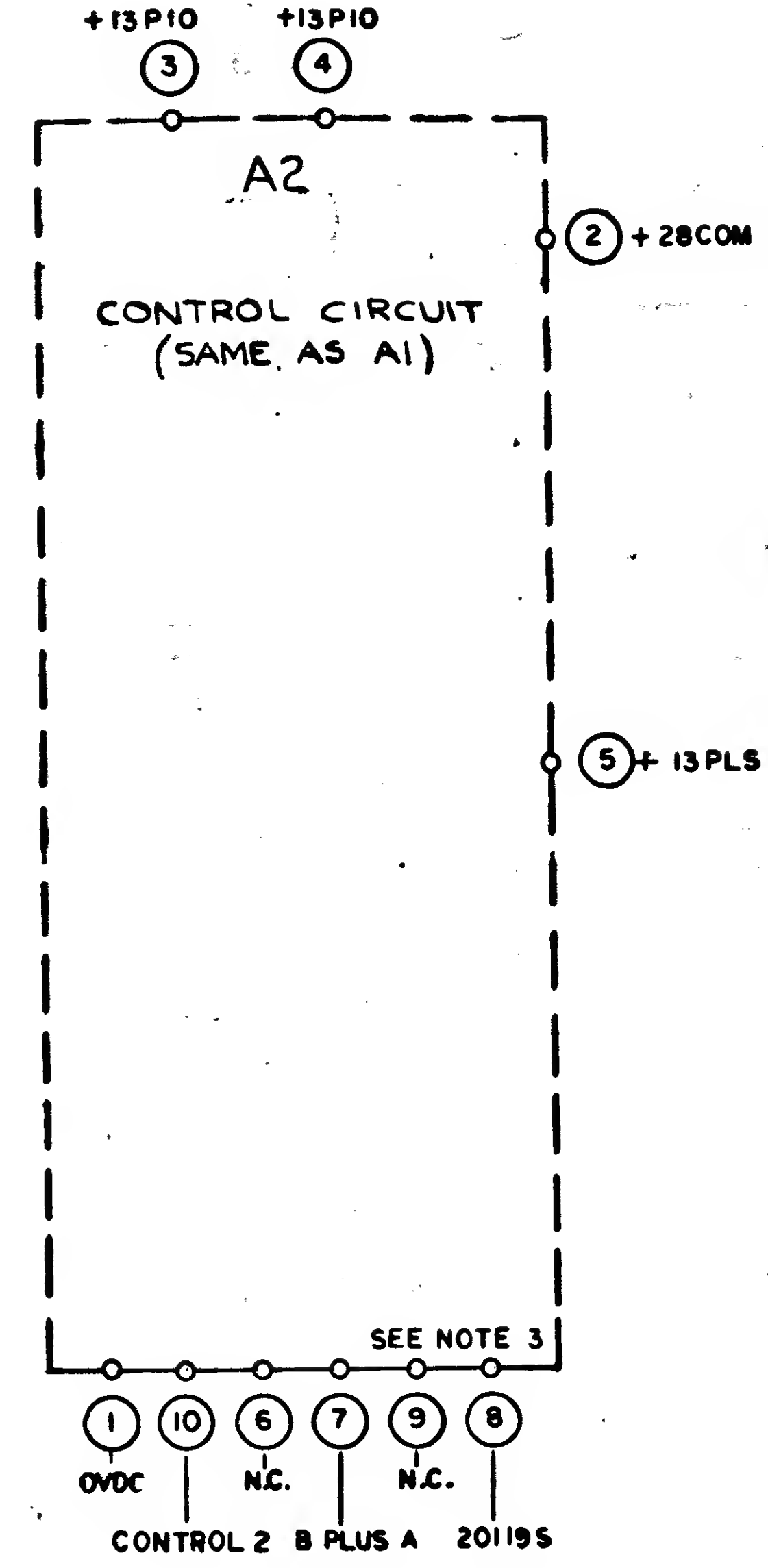
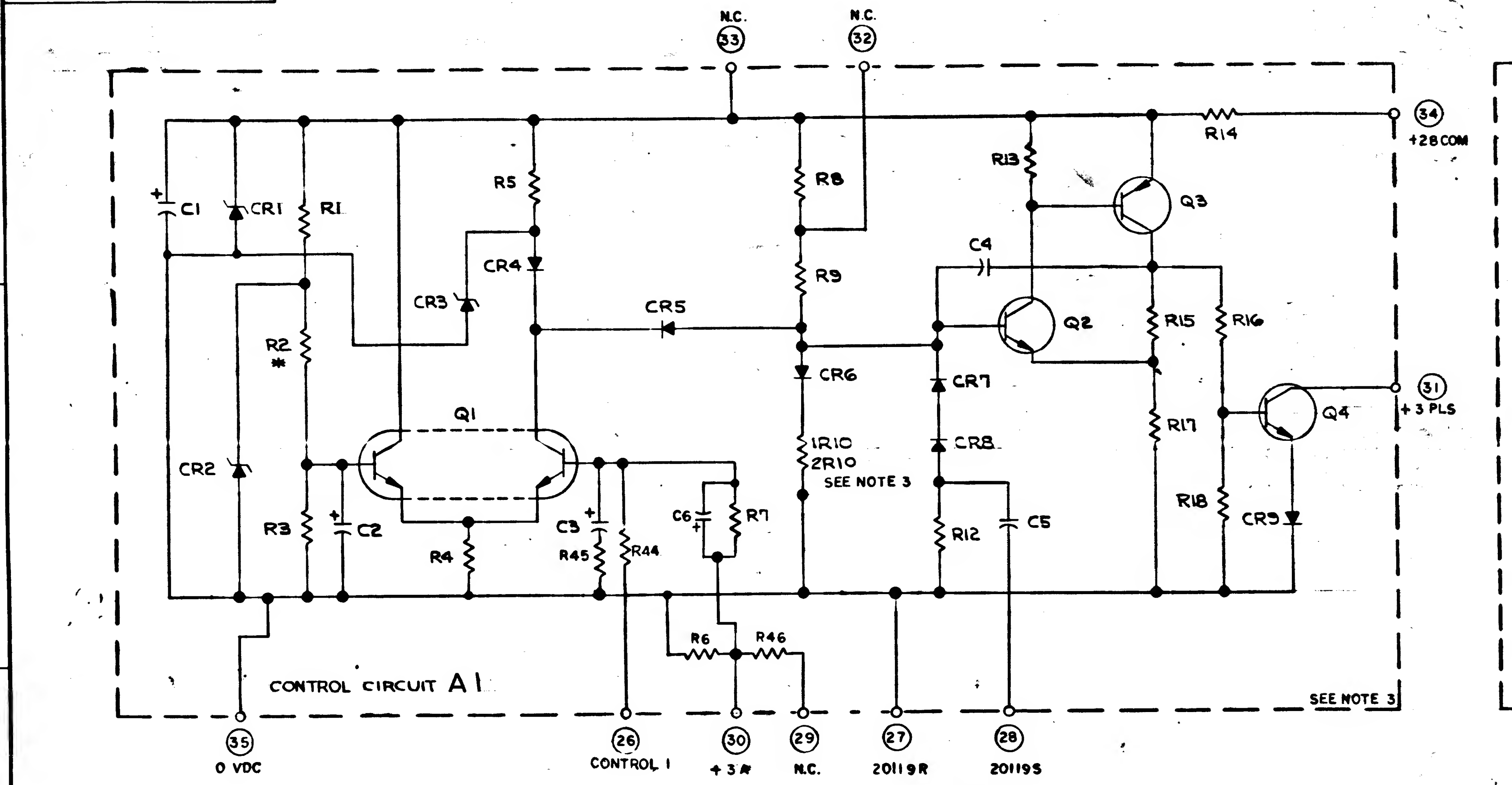
TABLE I

PART NO.	VALUE
1006750-32	1000
-33	1100
-34	1200
-35	1300
-36	1500
-37	1600
-38	1800
-39	2000
-40	2200
-41	2400
-42	2700
-43	3000
-44	3300

REF DES	PART NO.	DESCRIPTION	VALUE	TOL.	RATING
C1	1006755-34	CAP.	22 UF		
C2	1006755-26	CAP.	1.2 UF		
C3	1006755-64	CAP.	0.39 UF		
C4	1006793-30	CAP.	10056 UF		
C5	1006777-24	CAP.	1.01 UF		
C6	1006755-57	CAP.	0.1 UF		
CR1	1006701	DIODE	10V	5%	
CR2	1006838	DIODE	6.2V		
CR3	1006838	DIODE	6.2V		
CR4	1006751	DIODE			
CR5	1006751	DIODE			
CR6	1006751	DIODE			
CR7	1006751	DIODE			
CR8	1006751	DIODE			
CR9	1006751	DIODE			
CR10	1006751	DIODE			
CR11	1006751	DIODE			
CR12	1006751	DIODE			
CR13	1006838	DIODE	6.2V		
CR14	1006838	DIODE	6.2V		
CR15	1006838	DIODE	6.2V		
K1	1006815-2	RELAY			
Q1	1010376-1	TSTR			
Q2	1006752	TSTR			
Q3	1006753	TSTR			
Q4	1006752	TSTR			
Q5	1010376-1	TSTR			
Q6	1010376-1	TSTR			
Q7	1010376-1	TSTR			
Q8	1010376-1	TSTR			
Q9	1006829	TSTR			
Q10	1006829	TSTR			
Q11	1006752	TSTR			
Q12	1006752	TSTR			
R1	1006710-24	RES	470Ω	2%	1/4 W
R2	1006750	RES	NE	2%	1/4 W
R3	1006750-39	RES	2000Ω	2%	1/4 W
R4	1006750-24	RES	470Ω	2%	1/4 W
R5	1006750-24	RES	470Ω	2%	1/4 W
R6	1006750-24	RES	470Ω	2%	1/4 W
R7	1006750-43	RES	3000Ω	2%	1/4 W
R8	1006750-50	RES	5000Ω	2%	1/4 W
R9	1006750-60	RES	15KΩ	2%	1/4 W
R10	1006750-56	RES	10KΩ	2%	1/4 W
R11	1006750-70	RES	39KΩ	2%	1/4 W
R12	1006750-32	RES	1000Ω	2%	1/4 W
R13	1006750-32	RES	1000Ω	2%	1/4 W
R14	1010389-43	RES	300Ω	1%	3 W
R15	1006750-15	RES	200Ω	2%	1/4 W
R16	1006750-22	RES	390Ω	2%	1/4 W
R17	1006750-28	RES	680Ω	2%	1/4 W
R18	1006750-24	RES	470Ω	2%	1/4 W
R19	1006760-29	RES	750Ω	2%	1/2 W
R20	1006750-56	RES	10KΩ	2%	1/4 W
R21	1006750	RES	NE	2%	1/4 W
R22	1006750-56	RES	10KΩ	2%	1/4 W
R23	1006750-15	RES	22KΩ	2%	1/4 W
R24	1006750-56	RES	10KΩ	2%	1/4 W
R25	1006750-62	RES	18KΩ	2%	1/4 W
R26	1006750-42	RES	2700Ω	2%	1/4 W
R27	1006750-56	RES	10KΩ	2%	1/4 W
R28	1006750-15	RES	22KΩ	2%	1/4 W
R29	1006750-56	RES	10KΩ	2%	1/4 W
R30	1006750-56	RES	10KΩ	2%	1/4 W
R31	1006750-44	RES	3300Ω	2%	1/4 W
R32	1006750-56	RES	10KΩ	2%	1/4 W
R33	1006750-56	RES	10KΩ	2%	1/4 W
R34	1006750-21	RES	620Ω	2%	1/4 W
R35	1006750-56	RES	10KΩ	2%	1/4 W
R36	1006750-34	RES	1200Ω	2%	1/4 W
R37	1006750-56	RES	10KΩ	2%	1/4 W
R38	1006750-56	RES	10KΩ	2%	1/4 W
R39	1006750-56	RES	10KΩ	2%	1/4 W
R40	1006750-62	RES	18KΩ	2%	1/4 W
R41	1006750-44	RES	3300Ω	2%	1/4 W
R42	1006760-56	RES	10KΩ	2%	1/2 W
R43	1006760-32	RES	1000Ω	2%	1/2 W
R44	1006750-32	RES	1000Ω	2%	1/4 W
R45	1006750-15	RES	200Ω	2%	1/4 W
R46	1006750-36	RES	1500Ω	2%	1/4 W

QTY REQD: PART OR IDENTIFYING NO.: NOMENCLATURE OR DESCRIPTION: FREQ: INSTRUMENTATION LAB: MANNED SPACECRAFT CENTER: HOUSTON, TEXAS: SCHEMATIC, CONTROL MODULE AGC POWER SUPPLY: CODE IDENT NO.: E: 1006098: NACA DRAWING NO: 1006098: SHEET 1 OF 1

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NOTES:
 1. NOMINAL VALUE TO BE DETERMINED AT TEST, AS SELECTED FROM TABLE 1.
 2. N.C. INDICATES NO CONNECTION.
 3. PREFIX 1 ON SYMBOL NUMBERS REFERS TO CONTROL CIRCUIT A1. PREFIX 2 ON SYMBOL NUMBERS REFERS TO CONTROL CIRCUIT A2. WHERE NO PREFIX IS SHOWN THE VALUE APPLIES TO BOTH CIRCUITS.

TABLE 1

PART NO.	VALUE
1006750-32	1000
-33	1100
-34	1200
-35	1300
-36	1500
-37	1600
-38	1800
-39	2000
-40	2200
-41	2400
-42	2700
-43	3000
-44	3300

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
C1	1006755-134	CAP	22UF		
C2	1006755-26	CAP	1.2UF		
C3	1006755-64	CAP	0.39UF		
C4	1006793-30	CAP	0.056UF		
C5	100677724	CAP	0.01UF		
C6	1006755-57	CAP	0.1UF		
CR1	1006701	DIODE	10V	5%	
CR2	1006838	DIODE	6.2V		
CR3	1006838	DIODE	6.2V		
CR4	1006751	DIODE			
CR5	1006751	DIODE			
CR6	1006751	DIODE			
CR7	1006751	DIODE			
CR8	1006751	DIODE			
CR9	1006751	DIODE			
CR10	1006751	DIODE			
CR11	1006751	DIODE			
CR12	1006751	DIODE			
CR13	1006838	DIODE	6.2V		
CR14	1006838	DIODE	6.2V		
CR15	1006838	DIODE	6.2V		
K1	1006815-2	RELAY			
Q1	1010376-1	TSTR			
Q2	1006752	TSTR			
Q3	1006753	TSTR			
Q4	1006752	TSTR			
Q5	1010376-1	TSTR			
Q6	1010376-1	TSTR			
Q7	1010376-1	TSTR			
Q8	1010376-1	TSTR			
Q9	1006829	TSTR			
Q10	1006829	TSTR			
Q11	1006752	TSTR			
Q12	1006752	TSTR			
R1	1006750-24	RES	470Ω	2%	1/4 W
R2	1006750	RES	NE	2%	1/4 W
R3	1006750-39	RES	2000Ω	2%	1/4 W
R4	1006750-24	RES	470Ω	2%	1/4 W
R5	1006750-24	RES	470Ω	2%	1/4 W
R6	1006750-22	RES	390Ω	2%	1/4 W
R7	1006750-43	RES	3000Ω	2%	1/4 W
R8	1006750-50	RES	5600Ω	2%	1/4 W
R9	1006750-60	RES	15KΩ	2%	1/4 W
R10	1006750-54	RES	10KΩ	2%	1/4 W
R11	1006750-70	RES	39KΩ	2%	1/4 W
R12	1006750-32	RES	1000Ω	2%	1/4 W
R13	1006750-32	RES	10KΩ	2%	1/4 W
R14	1010389-43	RES	300Ω	1%	3 W
R15	1006750-15	RES	200Ω	2%	1/4 W
R16	1006750-22	RES	390Ω	2%	1/4 W
R17	1006750-28	RES	680Ω	2%	1/4 W
R18	1006750-24	RES	470Ω	2%	1/4 W
R19	1006760-28	RES	680Ω	2%	1/2 W
R20	1006750-54	RES	10KΩ	2%	1/4 W
R21	1006750	RES	NE	2%	1/4 W
R22	1006750-54	RES	10KΩ	2%	1/4 W
R23	1006750-15	RES	22KΩ	2%	1/4 W
R24	1006750-54	RES	10KΩ	2%	1/4 W
R25	1006750-62	RES	18KΩ	2%	1/4 W
R26	1006750-39	RES	2000Ω	2%	1/4 W
R27	1006750-54	RES	10KΩ	2%	1/4 W
R28	1006750-15	RES	22KΩ	2%	1/4 W
R29	1006750-54	RES	10KΩ	2%	1/4 W
R30	1006750-54	RES	10KΩ	2%	1/4 W
R31	1006750-47	RES	2700Ω	2%	1/4 W
R32	1006750-54	RES	10KΩ	2%	1/4 W
R33	1006750-54	RES	10KΩ	2%	1/4 W
R34	1006750-25	RES	510Ω	2%	1/4 W
R35	1006750-54	RES	10KΩ	2%	1/4 W
R36	1006750-32	RES	1000Ω	2%	1/4 W
R37	1006750-54	RES	10KΩ	2%	1/4 W
R38	1006750-54	RES	10KΩ	2%	1/4 W
R39	1006750-54	RES	10KΩ	2%	1/4 W
R40	1006750-62	RES	18KΩ	2%	1/4 W
R41	1006750-43	RES	3000Ω	2%	1/4 W
R42	1006760-56	RES	10KΩ	2%	1/2 W
R43	1006760-32	RES	1000Ω	2%	1/2 W
R44	106750-32	RES	1000Ω	2%	1/4 W
R45	1006750-15	RES	200Ω	2%	1/4 W
R46	1006750-35	RES	1300Ω	2%	1/4 W

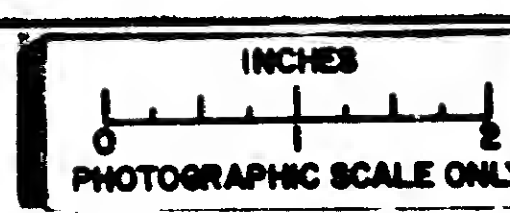
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B	REVISED PER TORR 01248	6-4-63	W. H. H.
C	REVISED PER TORR 01248	6-4-63	W. H. H.
D	REVISED PER TORR 01248	6-4-63	W. H. H.
E	REVISED PER TORR 01248	6-4-63	W. H. H.
F	REVISED PER TORR 01248	6-4-63	W. H. H.

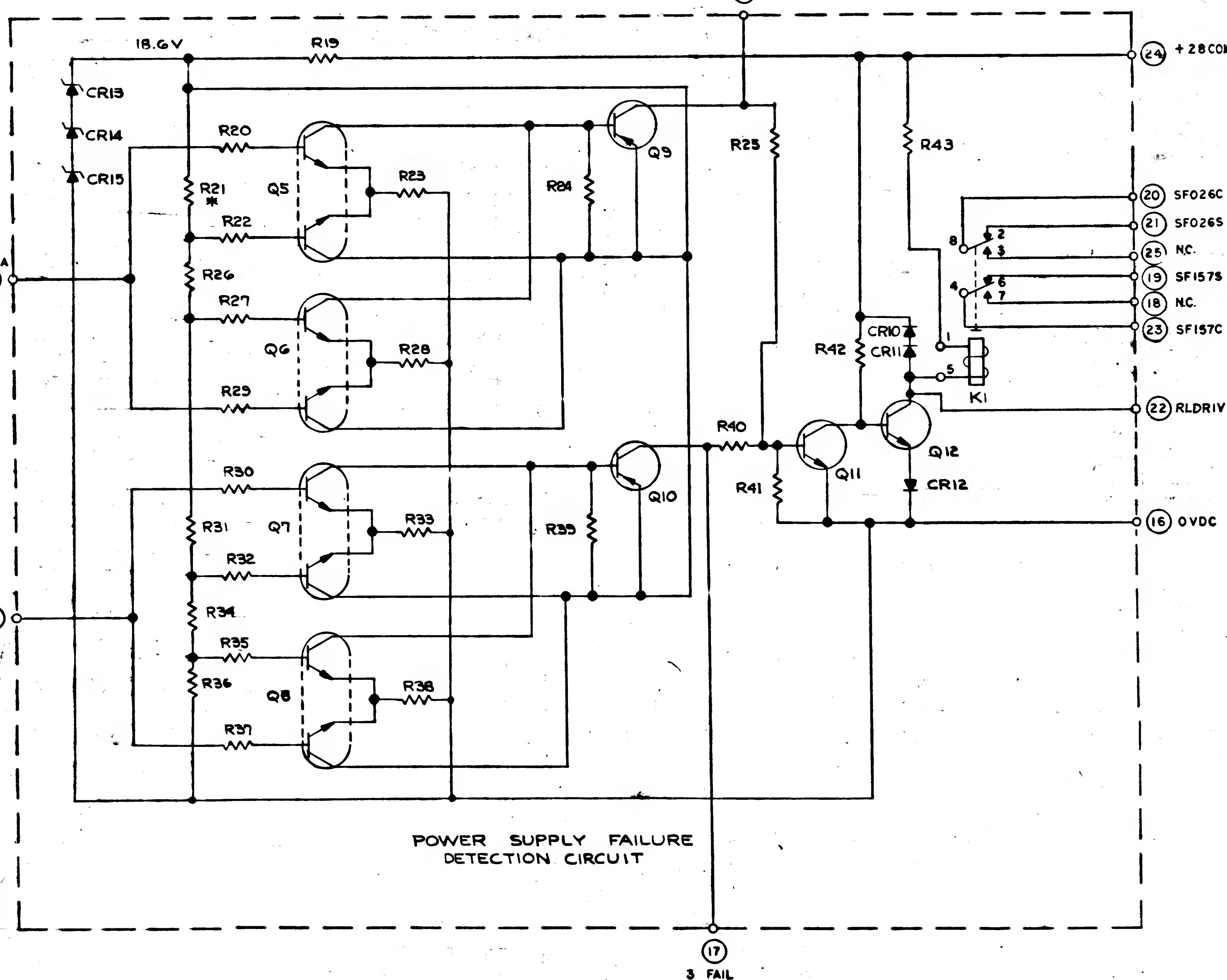
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ON FRACTIONS: DECIMALS: ANGLES: DO NOT SCALE THIS DRAWING. MATERIAL: HEAT TREATMENT: USED ON: FINAL FINISH: APPLICATION:

QTY REQD: PART OR IDENTIFYING NO.: NOMENCLATURE OR DESCRIPTION: FIND NO.: LIST OF MATERIALS: SET BY: INSTRUMENTATION LAB: CHECKED: DATE: APPROVAL: NASA APPROVAL: NASA DRAWING NO.: 1006098: SCALE: 1:1: SHEET 1 OF 1:

MASTER





PART NO	VALUE
1006750-32	1000
-33	1100
-34	1200
-35	1300
-36	1500
-37	1600
-38	1800
-39	2000
-40	2200
-41	2400
-42	2700
-43	3000
-44	3300

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
C1	1006755-34	CAP	22 UF		
C2	1006755-26	CAP	1.2UF		
C3	1006755-64	CAP	0.39UF		
C4	1006793-30	CAP	0.056UF		
C5	1006777-24	CAP	0.01UF		
C6	1006755-57	CAP	0.1UF		
CR1	1006701	DIODE	10V	5%	
CR2	1006838	DIODE	6.2V		
CR3	1006838	DIODE	6.2V		
CR4	1006751	DIODE			
CR5	1006751	DIODE			
CR6	1006751	DIODE			
CR7	1006751	DIODE			
CR8	1006751	DIODE			
CR9	1006751	DIODE			
CR10	1006751	DIODE			
CR11	1006751	DIODE			
CR12	1006751	DIODE			
CR13	1006838	DIODE	6.2V		
CR14	1006838	DIODE	6.2V		
CR15	1006838	DIODE	6.2V		
K1	1006819-2	RELAY			
Q1	1010376-1	TSTR			
Q2	1006753	TSTR			
Q3	1006753	TSTR			
Q4	1006752	TSTR			
Q5	1010376-1	TSTR			
Q6	1010376-1	TSTR			
Q7	1010376-1	TSTR			
Q8	1010376-1	TSTR			
Q9	1006829	TSTR			
Q10	1006829	TSTR			
Q11	1006752	TSTR			
Q12	1006752	TSTR			
R1	1006750-24	RES	470.Ω	2%	1/4 W
R2 *	1006750	RES	NE	2%	1/4 W
R3	1006750-39	RES	2000.Ω	2%	1/4 W
R4	1006750-24	RES	470.Ω	2%	1/4 W
R5	1006750-24	RES	470.Ω	2%	1/4 W
R6	1006750-22	RES	390.Ω	2%	1/4 W
R7	1006750-43	RES	3000.Ω	2%	1/4 W
R8	1006750-50	RES	5600.Ω	2%	1/4 W
R9	1006750-60	RES	15K.Ω	2%	1/4 W
I R10	1006750-54	RES	10K.Ω	2%	1/4 W
Z10	1006750-70	RES	39K.Ω	2%	1/4 W
R12	1006750-32	RES	1000.Ω	2%	1/4 W
R13	1006750-32	RES	1000.Ω	2%	1/4 W
R14	1010389-43	RES	500.Ω	1%	3 W
R15	1006750-15	RES	200.Ω	2%	1/4 W
R16	1006750-22	RES	390.Ω	2%	1/4 W
R17	1006750-28	RES	680.Ω	2%	1/4 W
R18	1006750-24	RES	470.Ω	2%	1/4 W
R19	1006760-28	RES	680.Ω	2%	1/2 W
R20	1006750-56	RES	10K.Ω	2%	1/4 W
R21 *	1006750	RES	NE	2%	1/4 W
R22	1006750-56	RES	10K.Ω	2%	1/4 W
R23	1006750-75	RES	62K.Ω	2%	1/4 W
R24	1006750-56	RES	10K.Ω	2%	1/4 W
R25	1006750-62	RES	18K.Ω	2%	1/4 W
R26	1006750-39	RES	2000.Ω	2%	1/4 W
R27	1006750-56	RES	10K.Ω	2%	1/4 W
R28	1006750-75	RES	62K.Ω	2%	1/4 W
R29	1006750-56	RES	10K.Ω	2%	1/4 W
R30	1006750-56	RES	10K.Ω	2%	1/4 W
R31	1006750-42	RES	2700.Ω	2%	1/4 W
R32	1006750-56	RES	10K.Ω	2%	1/4 W
R33	1006750-56	RES	10K.Ω	2%	1/4 W
R34	1006750-25	RES	510.Ω	2%	1/4 W
R35	1006750-56	RES	10K.Ω	2%	1/4 W
R36	1006750-32	RES	1000.Ω	2%	1/4 W
R37	1006750-56	RES	10K.Ω	2%	1/4 W
R38	1006750-56	RES	10K.Ω	2%	1/4 W
R39	1006750-56	RES	10K.Ω	2%	1/4 W
R40	1006750-42	RES	18K.Ω	2%	1/4 W
R41	1006750-43	RES	3000.Ω	2%	1/4 W
R42	1006760-56	RES	10K.Ω	2%	1/2 W
R43	1006760-32	RES	1000.Ω	2%	1/2 W
R44	106730-32	RES	1000.Ω	2%	1/4 W
R45	1006750-15	RES	200.Ω	2%	1/4 W
R46	1006750-35	RES	1300.Ω	2%	1/4 W

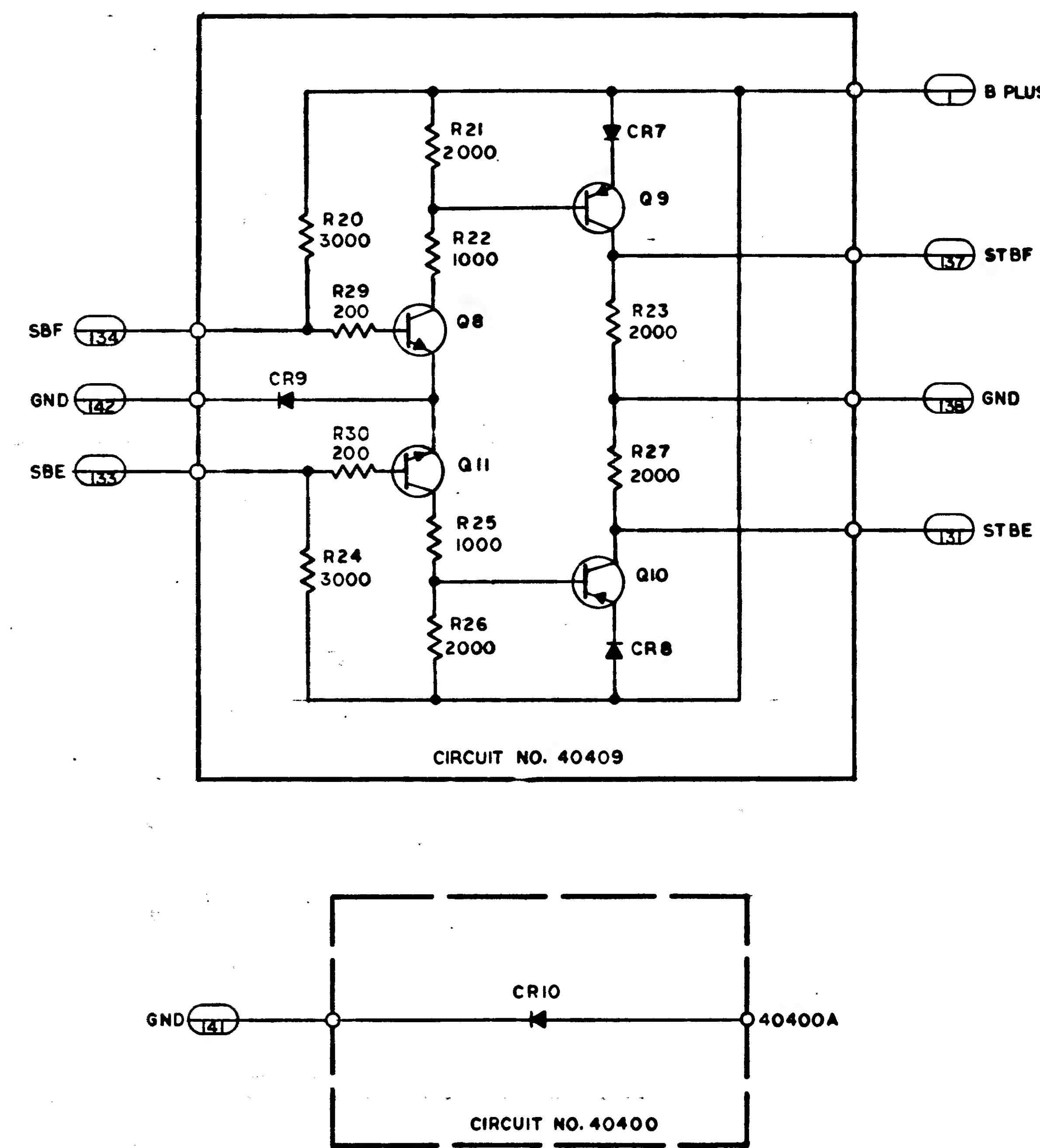
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B	REVISED PER TDRR 01989	6-6-83		
C	REVISED PER TDRR 02050	3-24-82		
D	REVISED PER TDRR 03136	1-20-83		
E	REVISED PER TDRR 03463	3-26-83		
F	REVISED PER TDRR 05436	10-27-83		
G	REVISED PER TDRR 05642	7-20-83		

NOTES:

1. NOMINAL VALUE TO BE DETERMINED AT TEST, AS SELECTED FROM TABLE 1
2. N.C. INDICATES NO CONNECTION
3. PREFIX 1 ON SYMBOL NUMBERS REFERS TO CONTROL CIRCUIT A1.
4. PREFIX 2 ON SYMBOL NUMBERS REFERS TO CONTROL CIRCUIT A2.

WHERE NO PREFIX IS SHOWN THE VALUE APPLIES TO BOTH CIRCUITS

QTY REQ	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIRM NO.
		LIST OF MATERIALS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL HEAT TREATMENT FINISH FINISH APPLICATION NEXT ASSY USED ON		MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC CONTROL MODULE AGC POWER SUPPLY CODE IDENT NO. SIZE E PART-A DRAWING NO. 10J6098 SCALE WT SHEET 1 OF 1	



FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 01967 DATE 7/

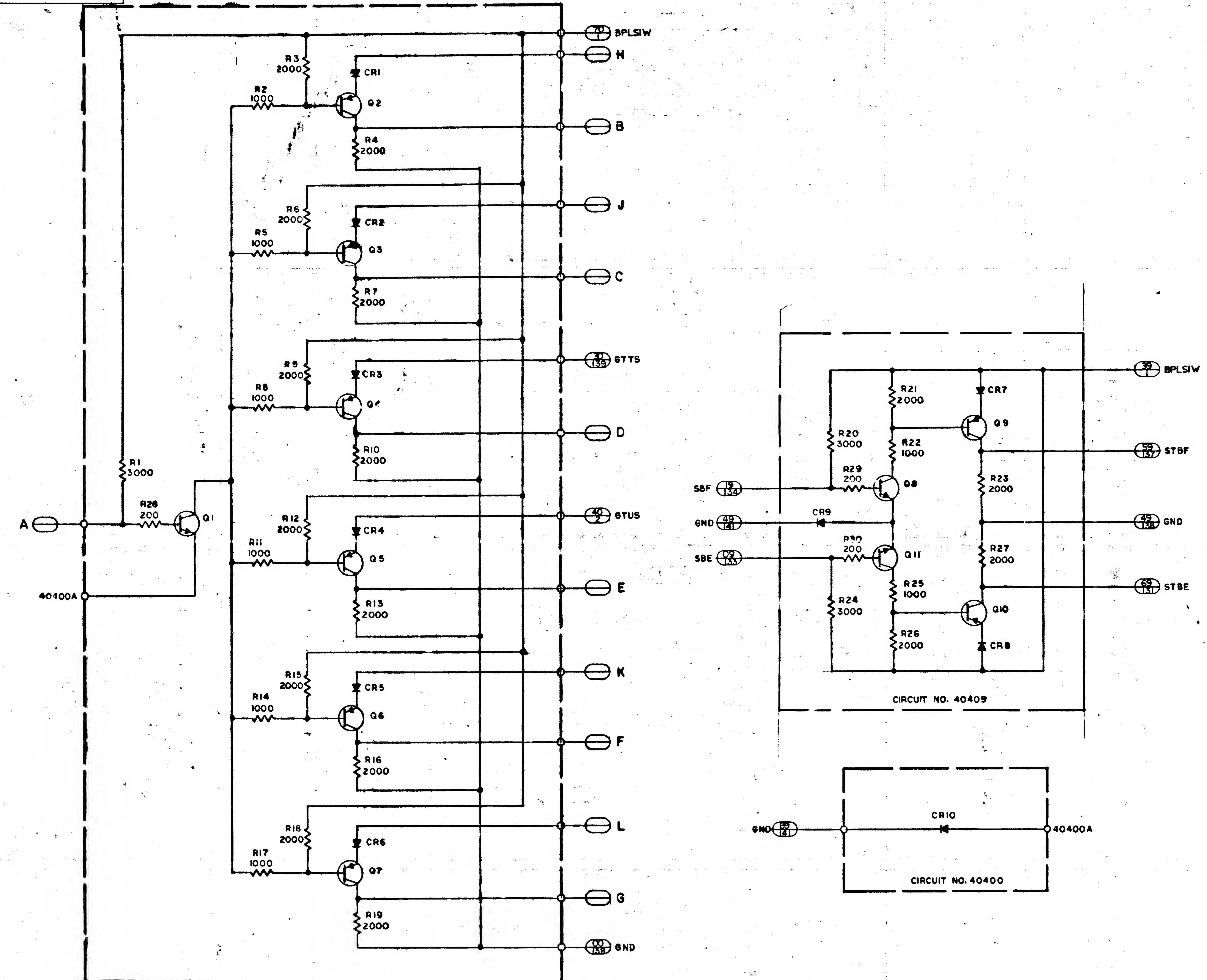
CIRCUIT NO.	H				J				K				L			
	SIGNAL	PIN AGC 2	PIN AGC 3	NO.	SIGNAL	PIN AGC 4	PIN AGC 5	NO.	SIGNAL	PIN AGC 6	PIN AGC 7	NO.	SIGNAL	PIN AGC 8	PIN AGC 9	NO.
40401	GTR		3				10					17				18
40402			19		6TS		26		GTV			33		GTW		34
40403			35				42					49				50
40404			51		58		65					72				73
40405			67				74					81				82
40406			83				90					97				98
40407			99				106					113				114
40408	▼		115	▼		122	▼					129	▼			130

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. UNLESS OTHERWISE SPECIFIED, RESISTOR VALUES ARE IN OHMS

QTY		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
LIST OF MATERIALS							
IN IT INSTRUMENTATION LAB COMMERCIAL WARE DRAWN BY _____ CHECKED _____ DATE <u>2/25/64</u> APPROVAL <u>W. H. Hyman</u> <u>7-10</u> APPROVAL <u>E. E. C. Hall</u> <u>1/24/64</u>				MANNED SPACECRAFT CENTER HOUSTON, TEXAS <h1>SCHEMATIC, ROPE STRAND SELECT MODULE</h1>			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES \pm \pm \pm DO NOT SCALE THIS DRAWING MATERIAL _____ HEAT TREATMENT _____ NEXT ASSY _____ USED ON _____ APPLICATION _____ FINAL FINISH _____				NASA APPROVAL <u>[Signature]</u> CODE IDENT NO. _____ SIZE _____ NASA DRAWING NO. <u>1006099</u> MFG APPROVAL <u>[Signature]</u> <u>1/24</u> SCALE _____ E _____ SHEET _____ OF _____			

REVISIONS
A REVISED 7 UPGRADED TO CLASS 1
PEP TDRR 02549



8 IDENTICAL CIRCUITS
CIRCUIT NUMBERS 40401
THRU 40408

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CKT NO. USED ON
R1	1006750-43	RESISTOR	3000	2%	1/4 W	40401 THRU 40408
R2	1006750-32		1000			
R3	1006750-39		2000			
R4	1006750-39		2000			
R5	1006750-32		1000			
R6	1006750-39		2000			
R7	1006750-39		2000			
R8	1006750-32		1000			
R9	1006750-39		2000			
R10	1006750-39		2000			
R11	1006750-32		1000			
R12	1006750-39		2000			
R13	1006750-39		2000			
R14	1006750-32		1000			
R15	1006750-39		2000			
R16	1006750-39		2000			
R17	1006750-32		1000			
R18	1006750-39		2000			
R19	1006750-39		2000			
R20	1006750-43		3000			40409
R21	1006750-39		2000			
R22	1006750-32		1000			
R23	1006750-39		2000			
R24	1006750-43		3000			
R25	1006750-32		1000			
R26	1006750-39		2000			
R27	1006750-39		2000			40401 THRU 40408
R28	1006750-15		200			40409
R29	1006750-15		200			40409
R30	1006750-15		200			40409
CR1	1006751	DIODE				40401 THRU 40408
CR2						
CR3						
CR4						
CR5						40401 THRU 40408
CR6						40409
CR7						40409
CR8						40409
CR9						40409
CR10						40400
Q1	1006752	TRANSISTOR				40401 THRU 40408
Q2	1006753					
Q3						
Q4						
Q5						
Q6						
Q7	1006753					40401 THRU 40408
Q8	1006752					40409
Q9	1006753					
Q10	1006753					
Q11	1006752					

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327
2. UNLESS OTHERWISE SPECIFIED, RESISTOR VALUES
ARE IN OHMS

CIRCUIT NO.	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5
40401	SD00	21	13	SDR00	11	6	SDR01	01	7	SDR02	31	8	SDR03	41	5	SDR04	51	14
40402	SD01	22	29	SDR06	12	22	SDR07	02	23	SDR08	32	24	SDR09	42	21	SDR10	52	30
40403	SD02	23	45	SDR12	13	38	SDR13	03	39	SDR14	33	40	SDR15	43	31	SDR16	53	46
40404	SD03	24	81	SDR18	14	64	SDR19	04	65	SDR20	34	56	SDR21	44	53	SDR22	54	62
40405	SD04	25	77	SDR24	15	70	SDR25	05	71	SDR26	35	72	SDR27	45	69	SDR28	55	78
40406	SD05	26	93	SDR30	16	86	SDR31	06	87	SDR32	36	88	SDR33	46	85	SDR34	56	94
40407	SD06	27	109	SDR36	17	102	SDR37	07	103	SDR38	37	104	SDR39	47	101	SDR40	57	110
40408	SD07	28	125	SDR42	18	118	SDR43	08	119	SDR44	38	120	SDR45	48	117	SDR46	58	126

CIRCUIT NO.	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5
40401	GTTS	10	3	GTSS	20	10	GTVS	30	17	GTWS	60	18
40402			19			26			33			34
40403			35			42			49			50
40404			51			58			65			66
40405			67			74			81			82
40406			83			90			97			98
40407			99			106			113			114
40408			115			122			129			130

MASTER



QTY REQD PART OR IDENTIFYING NO. NOMENCLATURE OR DESCRIPTION FND NO.

LIST OF MATERIALS

INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DATE 12/15/61

CHECKED *[Signature]*

APPROVAL *[Signature]*

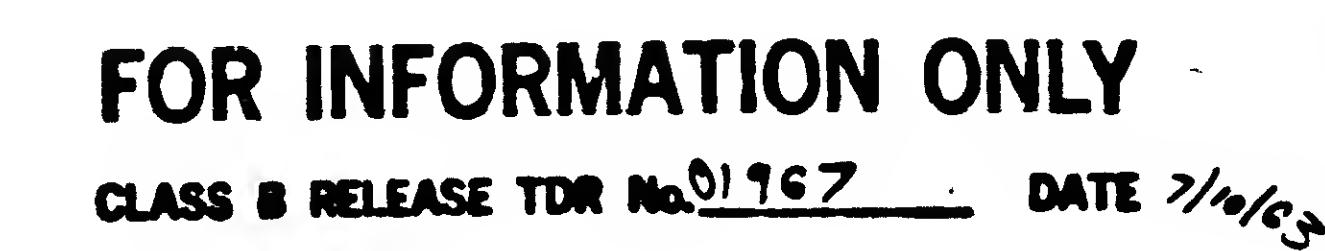
NASA APPROVAL *[Signature]*

CODE IDENT NO. E

SIZE 1006099

SCALE 1 OF 1

01961

40420 THRU 40427

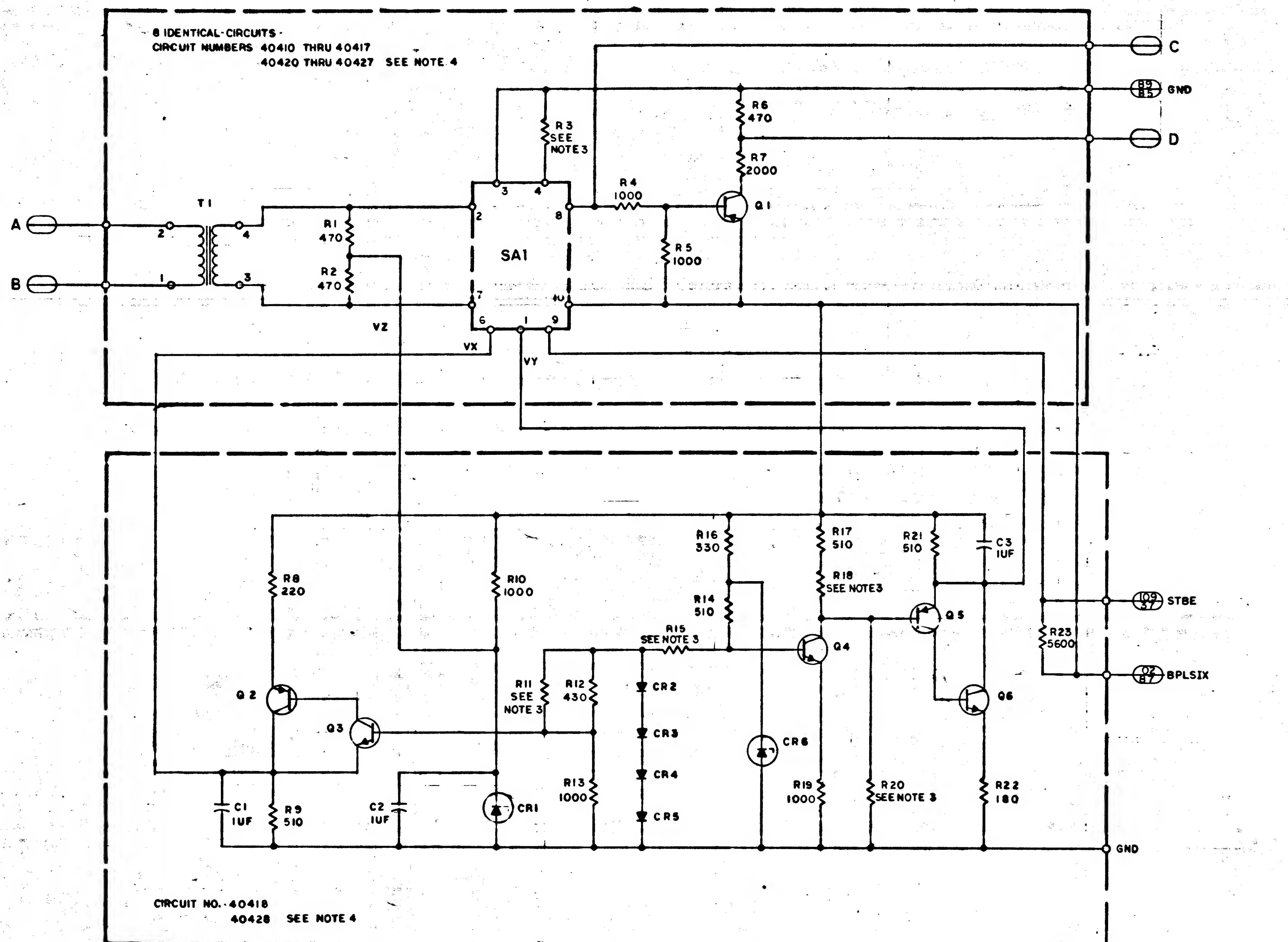
CIRCUIT NO.	A			B			C			D		
	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5
40410	SAF01		8	SBF01		6	40410A		2	SA01		4
40411	SAF02		7	SBF02		9	40411A		13	SA02		11
40412	SAF03		24	SBF03		22	40412A		18	SA03		20
40413	SAF04		23	SBF04		25	40413A		29	SA04		27
40414	SAF05		62	SBF05		60	40414A		54	SA05		56
40415	SAF06		61	SBF06		63	40415A		67	SA06		65
40416	SAF07		78	SBF07		76	40416A		70	SA07		72
40417	SAF08		77	SBF08		79	40417A		83	SA08		81
40420	SAF09			SBF09			40420A			SA09		
40421	SAF10			SBF10			40421A			SA10		
40422	SAF11			SBF11			40422A			SA11		
40423	SAF12			SBF12			40423A			SA12		
40424	SAF13			SBF13			40424A			SA13		
40425	SAF14			SBF14			40425A			SA14		
40426	SAF15			SBF15			40426A			SA15		
40427	SAF16			SBF16			40427A			SA16		

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. UNLESS OTHERWISE SPECIFIED, RESISTOR VALUES ARE IN OHMS CAPACITOR VALUES ARE IN MICROFARADS
3. THE VALUE OF R3, R11, R15, R18, R20 TO BE DETERMINED BY ELECTRICAL TEST. SEE TABLES
4. CIRCUIT NO. 40420 THRU 40427 AND 40428 TO BE IN MODULE NO. 2

[illegible]

REVISIONS
A REVISED PER TORR 022P6 7-9-67



FOR INFORMATION ONLY
CLASS B RELEASE TORR 01967 DATE 7/1/63

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CKT NO. USED ON
R1	1006750-24	RESISTOR	470	5%	1/4 W	
R2	-24		470			40410 THRU 40417
R3	-32	SEE NOTE	1000			40420 THRU 40427
R4	-32		1000			
R5	-24		470			40418, 40428
R6	-39		2000			
R7	-16		220			
R8	-25		510			
R9	-32	SEE NOTE	1000			
R10	-23		430			
R11	-32		1000			
R12	-25		510			
R13	-20	SEE NOTE	330		1/4 W	
R14	-25		510			
R15	1006760-20		330		1/4 W	
R16	1006750-25		510			
R17	-32	SEE NOTE	1000			
R18	-25		510			
R19	-14		180			
R20	-50		5600			
C1	1006755-68	CAPACITOR	1 UF		35 V	
C2						
C3						
CR1	1009372-7	DIODE				
CR2	1006751					
CR3						
CR4	1006751					
CR5	1006838					
CR6						
Q1	1006753	TRANSISTOR				40410 THRU 40417
Q2	1006753					40418, 40428
Q3	1006752					
Q4	1006752					
Q5	1006753					
Q6	1006752					
T1	1006762	TRANSFORMER				40410 THRU 40417
SA1	1006769	SENSE AMPL				40420 THRU 40427

R11	PART NO.	VALUE	R11	PART NO.	VALUE	R20	PART NO.	VALUE	R20	PART NO.	VALUE
1006750-25	510		1006750-41	2400		1006750-56	10K		1006750-72	47K	
-26	560		-42	2700		-57	11K		-73	51K	
-27	620		-43	3000		-58	12K		-74	56K	
-28	680		-44	3300		-59	13K		-75	62K	
-29	750		-45	3600		-60	15K		-76	68K	
-30	820		-46	3900		-61	16K		-77	75K	
-31	910		-47	4300		-62	18K		-78	82K	
-32	1000		-48	4700		-63	20K		-79	91K	
-33	1100		-49	5100		-64	22K		-80	100K	
-34	1200		-50	5600		-65	24K		-81	110K	
-35	1300		-51	6200		-66	27K		-82	120K	
-36	1500		-52	6800		-67	30K		-83	130K	
-37	1600		-53	7500		-68	33K	1006750-84	140K		
-38	1800		-54	8200		-69	36K				
-39	2000		-55	9100		-70	39K				
1006750-40	2200		1006750-56	10K		1006750-71	43K				

COMPONENT PREFIX NO. (ASSY)	CIRCUIT NO.	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5
1	40410	SAF01	90	8	SBF01	100	6	40410A	90	2	SA01	110	4
2	40411	SAF02	91	7	SBF02	101	9	40411A	91	13	SA02	111	11
3	40412	SAF03	92	24	SBF03	102	22	40412A	92	18	SA03	112	20
4	40413	SAF04	93	23	SBF04	103	25	40413A	93	29	SA04	113	27
5	40414	SAF05	94	62	SBF05	104	60	40414A	94	54	SA05	114	56
6	40415	SAF06	95	61	SBF06	105	63	40415A	95	67	SA06	115	65
7	40416	SAF07	96	78	SBF07	106	76	40416A	96	70	SA07	116	72
8	40417	SAF08	97	77	SBF08	107	79	40417A	97	83	SA08	117	81
1	40420	SAF09	90	8	SBF09	100	6	40420A	90	2	SA09	110	4
2	40421	SAF10	91	7	SBF10	101	9	40421A	91	13	SA10	111	11
3	40422	SAF11	92	24	SBF11	102	22	40422A	92	18	SA11	112	20
4	40423	SAF12	93	23	SBF12	103	25	40423A	93	29	SA12	113	27
5	40424	SAF13	94	62	SBF13	104	60	40424A	94	54	SA13	114	56
6	40425	SAF14	95	61	SBF14	105	63	40425A	95	67	SA14	115	65
7	40426	SAF15	96	78	SBF15	106	76	40426A	96	70	SA15	116	72
8	40427	SAF16	97	77	SBF16	107	79	40427A	97	83	SA16	117	81

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. UNLESS OTHERWISE SPECIFIED, RESISTOR VALUES ARE IN OHMS, CAPACITOR VALUES ARE IN MICROFARADS
3. THE VALUE OF R3, R11, R15, R18, R20 TO BE DETERMINED BY ELECTRICAL TEST. SEE TABLES
4. CIRCUIT NO. 40420 THRU 40427 AND 40428 TO BE IN MODULE NO. 2

SEE NOTE 4

R3	PART NO.	VALUE	R15	PART NO.	VALUE	R18	PART NO.	VALUE
1006750-25	510		1006750-1	51		1006750-32	1000	
-26	560		-2	56		-33	1100	
-27	620		-3	62		-34	1200	
-28	680		-4	68		-35	1300	
-29	750		-5	75		-36	1500	
-30	820		-6	82		-37	1600	
-31	910		-7	91		-38	1800	
-32	1000		-8	100		-39	2000	
-33	1100		-9	110		-40	2200	
-34	1200		-10	120		-41	2400	
-35	1300		-11	130		-42	2700	
-36	1500		-12	150		-43	3000	
-37	1600		-13	160		-44	3300	
-38	1800		-14	180		-45	3600	
-39	2000		-15	200		-46	3900	
-40	2200		-16	220		-47	4300	
-41	2400		-17	240		-48	4700	
-42	2700		-18	270	1006750-49	5100		
-43	3000		-19	300				
-44	3300		-20	330				
-45	3600		-21	360				
-46	3900		-22	390				
-47	4300		-23	430				
-48	4700		-24	470				
1006750-49	5100		1006750-25	510				

QTY REQD PART OR IDENTIFYING NO. NOMENCLATURE OR DESCRIPTION

LIST OF MATERIALS

INSTRUMENTATION LAB
HOUSTON, TEXAS

MANAGED SPACECRAFT CENTER
HOUSTON, TEXAS

SCHEMATIC, ERASABLE
SENSE AMPL MODULE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES

CHECKED: *[Signature]* DATE: *[Date]*

DO NOT SCALE THIS DRAWING

MATERIAL: *[Material]*

HEAT TREATMENT: *[Heat Treatment]*

NEXT ASSY: *[Next Assy]* USED ON: *[Used On]* FINAL FINISH: *[Final Finish]*

APPLICATION: *[Application]*

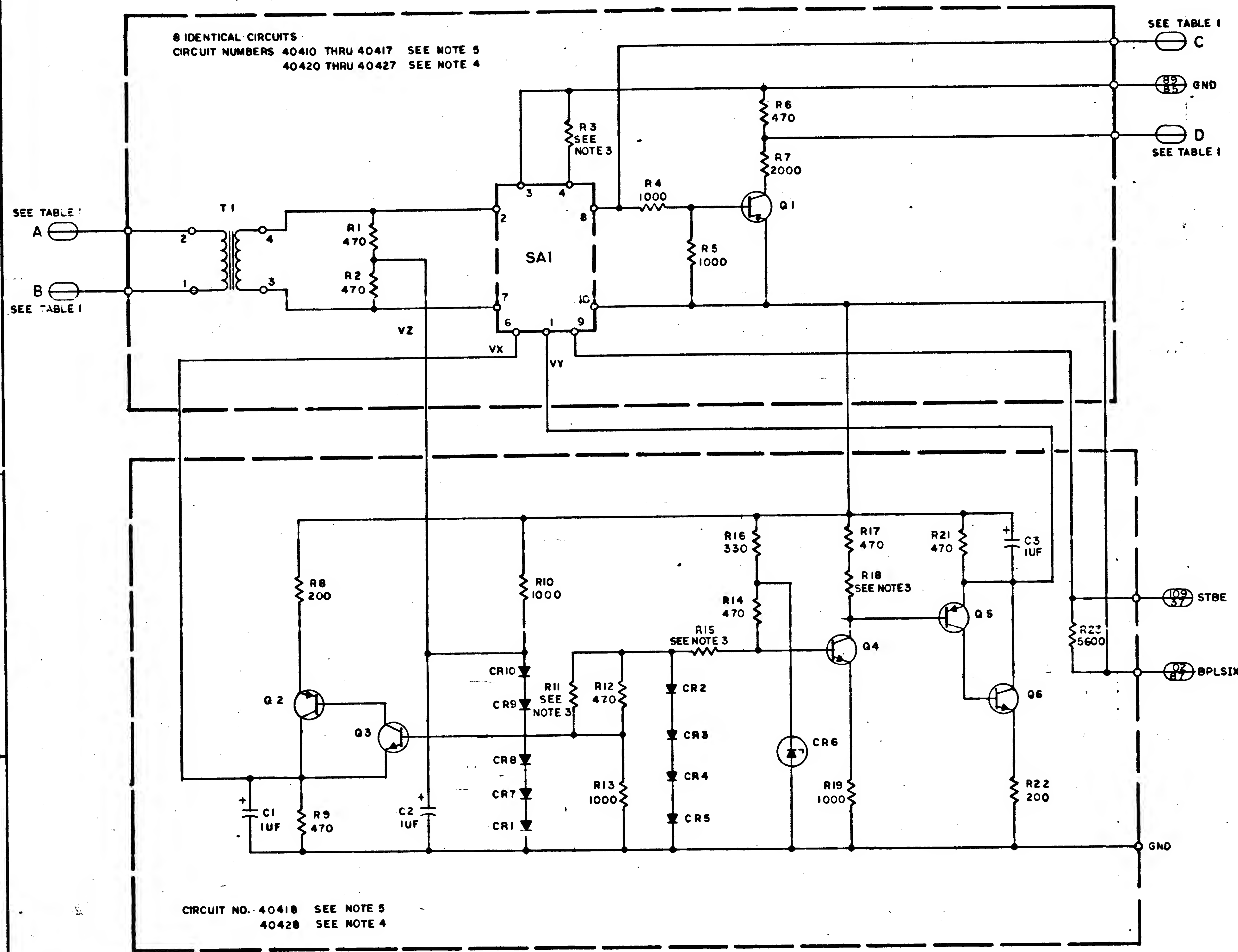
SCALE: *[Scale]* WT: *[Weight]* SHEET 1 OF 1

MASTER

PHOTOGRAPHIC SCALE ONLY

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS ON FRACTIONS DECIMALS ANGLES. DO NOT SCALE THIS DRAWING. MATERIAL. HEAT TREATMENT. FINISH. APPLICATION.

REV	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TORR 03/26/64	7-24-64	PP
B	REVISED PER TORR 03/27/64	8-12-64	PP



CIRCUIT NO. 40418 SEE NOTE 5
40428 SEE NOTE 4

TABLE II

PART	VALUE	PART NO.	VALUE
1006750-15	200	1006750-31	910
-16	220	-32	1000
-17	240	-33	1100
-18	270	-34	1200
-19	300	-35	1300
-20	330	-36	1500
-21	360	-37	1600
-22	390	-38	1800
-23	430	-39	2000
-24	470	-40	2200
-25	510	-41	2400
-26	560	-42	2700
-27	620	-43	3000
-28	680	-44	3300
-29	750	-45	3600
1006750-30	820	1006750-46	3900

- NOTES:
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
 - UNLESS OTHERWISE SPECIFIED, RESISTOR VALUES ARE IN OHMS. CAPACITOR VALUES ARE IN MICROFARADS.
 - THE VALUE OF R3, R11, R15, R18 TO BE DETERMINED BY ELECTRICAL TEST. SEE TABLES II AND III.
 - CIRCUIT NO. 40420 THRU 40427 AND 40428 TO BE IN MODULE B14.
 - CIRCUIT NO. 40410 THRU 40417 AND 40418 TO BE IN MODULE B13.

TABLE I

COMPONENT PREFIX NO. (ASSY)	CIRCUIT NO.	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5
1	40410	SAF01	90	8	SBF01	100	5	40410A	80	2	SA01	110	4
2	40411	SAF02	91	7	SBF02	101	5	40411A	81	2	SA02	111	11
3	40412	SAF03	92	24	SBF03	102	22	40412A	82	18	SA03	112	20
4	40413	SAF04	93	23	SBF04	103	25	40413A	83	29	SA04	113	27
5	40414	SAF05	94	62	SBF05	104	60	40414A	84	54	SA05	114	56
6	40415	SAF06	95	61	SBF06	105	63	40415A	85	67	SA06	115	65
7	40416	SAF07	96	78	SBF07	106	76	40416A	86	70	SA07	116	72
8	40417	SAF08	97	77	SBF08	107	79	40417A	87	83	SA08	117	81
1	40420	SAF09	90	8	SBF09	100	6	40420A	80	2	SA09	110	4
2	40421	SAF10	91	7	SBF10	101	9	40421A	81	13	SA10	111	11
3	40422	SAF11	92	24	SBF11	102	22	40422A	82	18	SA11	112	20
4	40423	SAF12	93	23	SBF12	103	25	40423A	83	29	SA12	113	27
5	40424	SAF13	94	62	SBF13	104	60	40424A	84	54	SA13	114	56
6	40425	SAF14	95	61	SBF14	105	63	40425A	85	67	SA14	115	65
7	40426	SAF15	96	78	SBF15	106	76	40426A	86	70	SA15	116	72
8	40427	SAF16	97	77	SBF16	107	79	40427A	87	83	SA16	117	81

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CKT NO. USED ON
R1	1006750-24	RESISTOR	470	2%	1/4 W	
R2	-24		470			
R3	-32		SEE NOTE 3			40410 THRU 40417
R4	-32		1000			
R5	-32		1000			40420 THRU 40427
R6	-24		470			
R7	-39		2000			
R8	-15		200			40418 40428
R9	-24		470			
R10	-32		1000			
R11	-		SEE NOTE 3			
R12	-24		470			
R13	-32		1000			
R14	-24		470			
R15	-		SEE NOTE 3		1/4 W	
R16	1006760-20		330		1/2 W	
R17	1006750-24		470		1/4 W	
R18	-		SEE NOTE 3			
R19	-32		1000			
R20	-					
R21	-24		470			
R22	-15		200			
R23	-50		5600			
C1	1006755-68	CAPACITOR	1 UUF		35V	
C2						
C3						
CR1	1006751	DIODE				
CR2						
CR3						
CR4						
CR5						
CR6	1006838					
CR7	1006751					
CR8						
CR9						
CR10						
Q1	1006753	TRANSISTOR				40410 THRU 40417
Q2	1006753					40418, 40428
Q3	1006752					
Q4	1006752					
Q5	1006753					
Q6	1006752					
T1	1006762	TRANSFORMER				40410 THRU 40417
SA1	1006769	SENSE AMPL				40420 THRU 40427

TABLE III

PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE
1006750-25	510	1006750-1	81	1006750-32	1000
-26	560	-2	56	-33	1100
-27	620	-3	62	-34	1200
-28	680	-4	68	-35	1300
-29	750	-5	75	-36	1500
-30	820	-6	82	-37	1600
-31	910	-7	91	-38	1800
-32	1000	-8	100	-39	2000
-33	1100	-9	110	-40	2200
-34	1200	-10	120	-41	2400
-35	1300	-11	130	-42	2700
-36	1500	-12	150	-43	3000
-37	1600	-13	160	-44	3300
-38	1800	-14	180	-45	3600
-39	2000	-15	200	-46	3900
-40	2200	-16	220	-47	4300
-41	2400	-17	240	-48	4700
-42	2700	-18	270	1006750-49	5100
-43	3000	-19	300		
-44	3300	-20	330		
-45	3600	-21	360		
-46	3900	-22	390		
-47	4300	-23	430		
-48	4700	-24	470		
1006750-49	5100	1006750-25	510		

QTY REQD PART OR IDENTIFYING NO. NOMENCLATURE OR DESCRIPTION FNO NO.

LIST OF MATERIALS

INSTRUMENTATION LAB

MANAGED SPACECRAFT CENTER

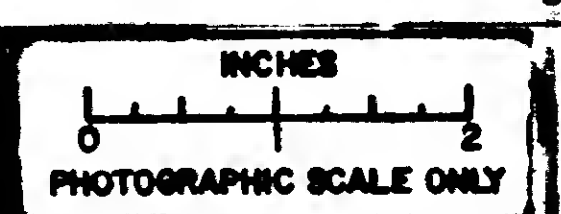
HOUSTON, TEXAS

SCHEMATIC, ERASABLE

SENSE AMPL MODULE B13-B14

NASA DRAWING NO. 1006118

SHEET 1 OF 1



1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
2. TOLERANCES ARE IN INCHES.
3. DIMENSIONS ARE IN INCHES.
4. DIMENSIONS ARE IN INCHES.
5. DIMENSIONS ARE IN INCHES.
6. DIMENSIONS ARE IN INCHES.
7. DIMENSIONS ARE IN INCHES.
8. DIMENSIONS ARE IN INCHES.
9. DIMENSIONS ARE IN INCHES.
10. DIMENSIONS ARE IN INCHES.

REV	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 02/28/64	1/29/64	PER
B	REVISED PER TDRR 03/25/64	3/25/64	PER
C	REVISED PER TDRR 4/24/64	4/24/64	PER

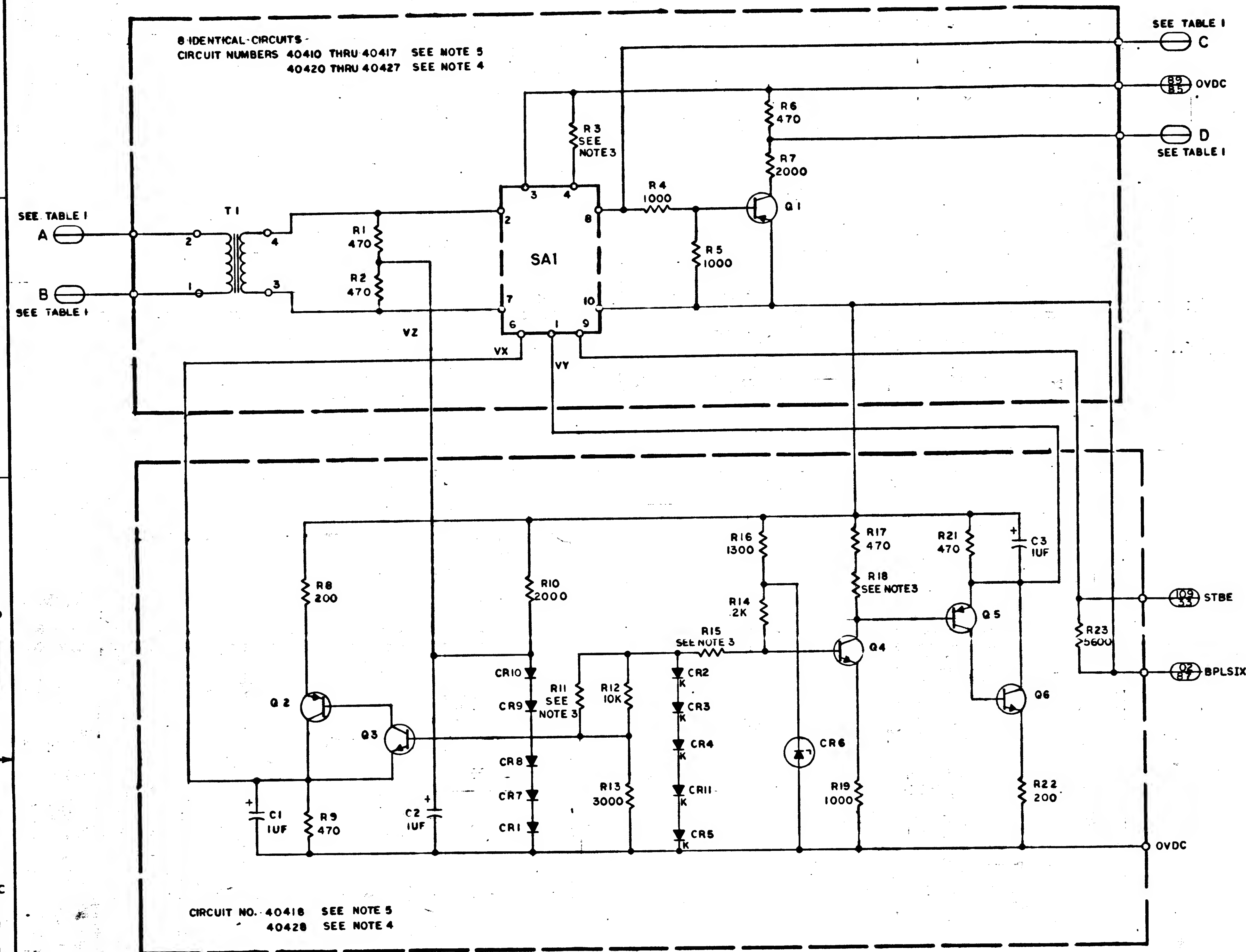


TABLE II

R 11			R 11		
PART NO.		VALUE	PART NO.		VALUE
1006750-15		200	1006750-31		910
	-16	220		-32	1000
	-17	240		-33	1100
	-18	270		-34	1200
	-19	300		-35	1300
	-20	330		-36	1400
	-21	360		-37	1500
	-22	390		-38	1600
	-23	420		-39	2000
	-24	470		-40	2200
	-25	510		-41	2400
	-26	560		-42	2700
	-27	620		-43	3000
	-28	680		-44	3300
	-29	750		-45	3600
1006750-30	820		1006750-46		3900

- NOTES:
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 - UNLESS OTHERWISE SPECIFIED, RESISTOR VALUES ARE IN OHMS. CAPACITOR VALUES ARE IN MICROFARADS
 - THE VALUE OF R3, R11, R15, R18 TO BE DETERMINED BY ELECTRICAL TEST. SEE TABLES II AND III
 - CIRCUIT NO. 40420 THRU 40427 AND 40428 TO BE IN MODULE B14
 - CIRCUIT NO. 40410 THRU 40417 AND 40418 TO BE IN MODULE B13

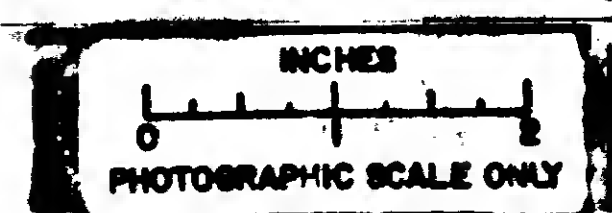
TABLE I

COMPONENT PREFIX NO. (ASSY)	CIRCUIT NO.	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5
1	40410	SAF01	90	8	SBF01	100	6	40410A	80	2	SA01	110	4
2	40411	SAF02	91	7	SBF02	101	5	40411A	81	13	SA02	111	11
3	40412	SAF03	92	24	SBF03	102	22	40412A	82	18	SA03	112	20
4	40413	SAF04	93	23	SBF04	103	25	40413A	83	29	SA04	113	27
5	40414	SAF05	94	62	SBF05	104	60	40414A	84	94	SA05	114	56
6	40415	SAF06	95	61	SBF06	105	63	40415A	85	67	SA06	115	65
7	40416	SAF07	96	78	SBF07	106	76	40416A	86	70	SA07	116	72
8	40417	SAF08	97	77	SBF08	107	79	40417A	87	83	SA08	117	81
1	40420	SAF09	90	8	SBF09	100	6	40420A	80	2	SA09	110	4
2	40421	SAF10	91	7	SBF10	101	5	40421A	81	13	SA10	111	11
3	40422	SAF11	92	24	SBF11	102	22	40422A	82	18	SA11	112	20
4	40423	SAF12	93	23	SBF12	103	25	40423A	83	29	SA12	113	27
5	40424	SAF13	94	62	SBF13	104	60	40424A	84	94	SA13	114	56
6	40425	SAF14	95	61	SBF14	105	63	40425A	85	67	SA14	115	65
7	40426	SAF15	96	78	SBF15	106	76	40426A	86	70	SA15	116	72
8	40427	SAF16	97	77	SBF16	107	79	40427A	87	83	SA16	117	81

TABLE III

R3		R15		R18	
PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE
1006750-25	510	1006750-1	51	1006750-32	1000
-26	560	-2	56	-33	1100
-27	620	-3	62	-34	1200
-28	680	-4	68	-35	1300
-29	750	-5	75	-36	1500
-30	820	-6	82	-37	1600
-31	910	-7	91	-38	1800
-32	1000	-8	100	-39	2000
-33	1100	-9	110	-40	2200
-34	1200	-10	120	-41	2400
-35	1300	-11	130	-42	2700
-36	1500	-12	150	-43	3000
-37	1600	-13	160	-44	3300
-38	1800	-14	180	-45	3600
-39	2000	-15	200	-46	3900
-40	2200	-16	220	-47	4300
-41	2400	-17	240	-48	4700
-42	2700	-18	270	1006750-49	5100
-43	3000	-19	300		
-44	3300	-20	330		
-45	3600	-21	360		
-46	3900	-22	390		
-47	4300	-23	430		
-48	4700	-24	470		
1006750-49	5100	1006750-25	510		

QTY REQD	PART OR IDENTIFYING NO.	DESCRIPTION OR NOMENCLATURE	FIG. NO.
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
SCHEMATIC, ERASABLE SENSE AMPL MODULE B13-B14			
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE IN INCHES. FRACTIONS ON DIMENSIONS ARE IN INCHES. DO NOT SCALE THIS DRAWING.		DRAWN BY: J. L. JONES CHECKED BY: J. L. JONES APPROVAL: J. L. JONES	
HEAT TREATMENT: NONE		NASA APPROVAL: J. L. JONES	
NEXT ASSY: USED ON: APPLICATION:		SCALE: 1/4" = 1"	
DRAWING NO. 1006118		SHEET 1 OF 1	



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REV	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TORR 02294	7/24/61	W
B	REVISED PER TORR 03137	8/14/61	W
C	REVISED PER TORR 03147	8/24/61	W
D	REVISED PER TORR 03147	8/24/61	W

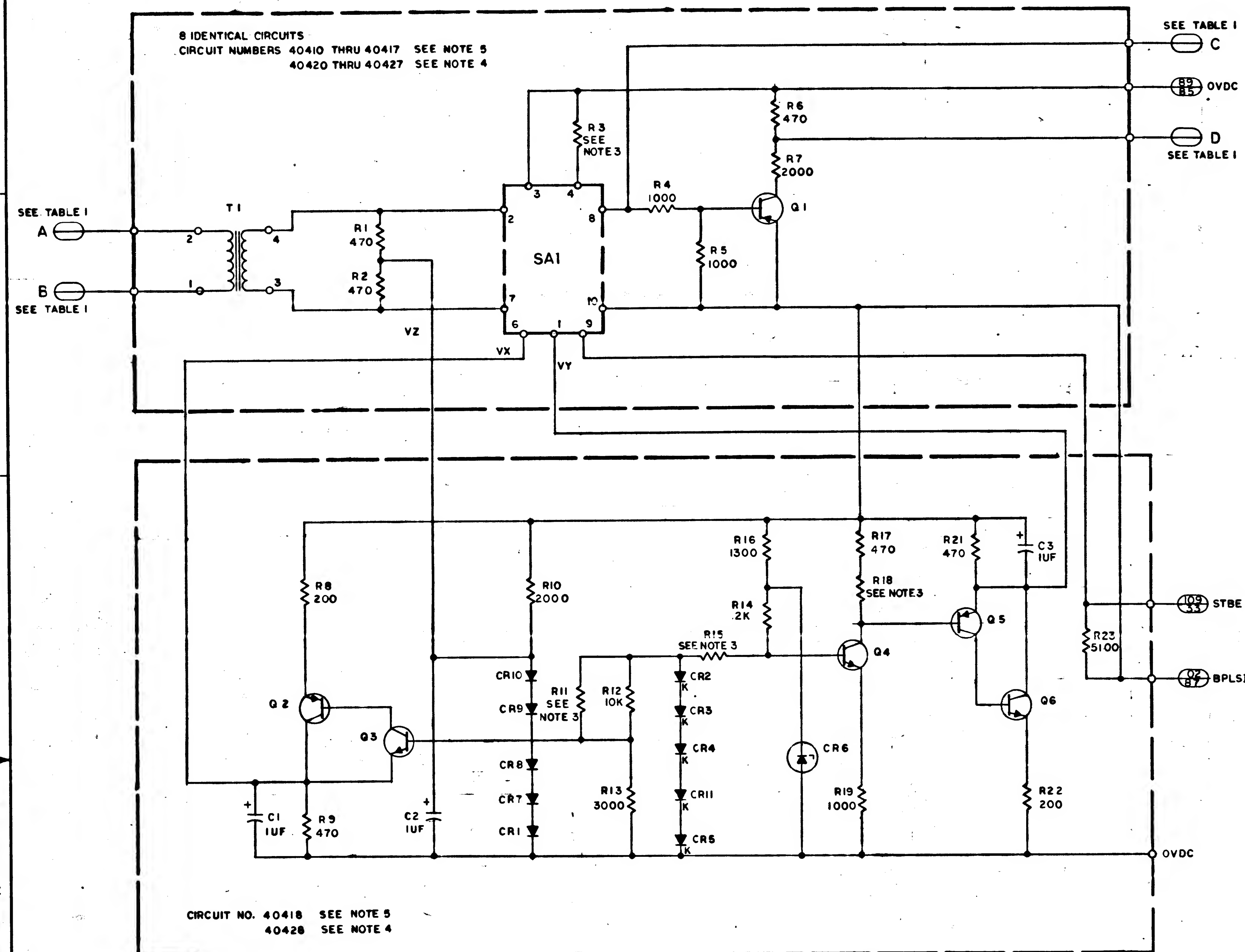


TABLE II

R 11		R 11	
PART NO.	VALUE	PART NO.	VALUE
1006750-15	200	1006750-31	9 10
-16	220	-32	1000
-17	240	-33	1100
-18	270	-34	1200
-19	300	-35	1300
-20	330	-36	1500
-21	360	-37	1600
-22	390	-38	1800
-23	430	-39	2000
-24	470	-40	2200
-25	510	-41	2400
-26	560	-42	2700
-27	620	-43	3000
-28	660	-44	3300
-29	750	-45	3600
1006750-30	820	1006750-46	3900

NOTES:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- UNLESS OTHERWISE SPECIFIED, RESISTOR VALUES ARE IN OHMS. CAPACITOR VALUES ARE IN MICROFARADS
- THE VALUE OF R3, R11, R15, R18 TO BE DETERMINED BY ELECTRICAL TEST. SEE TABLES II AND III
- CIRCUIT NO. 40420 THRU 40427 AND 40428 TO BE IN MODULE B14
- CIRCUIT NO. 40410 THRU 40417 AND 40418 TO BE IN MODULE B13

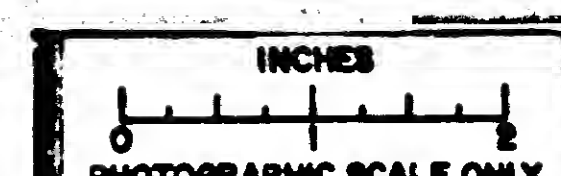
TABLE I

COMPONENT PREFIX NO. (ASSY)	CIRCUIT NO.	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5
1	40410	SAF01	90	8	SBF01	100	6	40410A	80	2	SA01	110	4
2	40411	SAF02	91	7	SBF02	101	5	40411A	81	13	SA02	111	11
3	40412	SAF03	92	24	SBF03	102	22	40412A	82	18	SA03	112	20
4	40413	SAF04	93	23	SBF04	103	25	40413A	83	29	SA04	113	27
5	40414	SAF05	94	62	SBF05	104	60	40414A	84	94	SA05	114	56
6	40415	SAF06	95	61	SBF06	105	63	40415A	85	67	SA06	115	65
7	40416	SAF07	96	78	SBF07	106	76	40416A	86	70	SA07	116	72
8	40417	SAF08	97	77	SBF08	107	79	40417A	87	83	SA08	117	81
1	40420	SAF09	90	8	SBF09	100	6	40420A	80	2	SA09	110	4
2	40421	SAF10	91	7	SBF10	101	5	40421A	81	13	SA10	111	11
3	40422	SAF11	92	24	SBF11	102	22	40422A	82	18	SA11	112	20
4	40423	SAF12	93	23	SBF12	103	25	40423A	83	29	SA12	113	27
5	40424	SAF13	94	62	SBF13	104	60	40424A	84	94	SA13	114	56
6	40425	SAF14	95	61	SBF14	105	63	40425A	85	67	SA14	115	65
7	40426	SAF15	96	78	SBF15	106	76	40426A	86	70	SA15	116	72
8	40427	SAF16	97	77	SBF16	107	79	40427A	87	83	SA16	117	81

TABLE III

R3		R15		R18	
PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE
1006750-25	510	1006750-1	51	1006750-32	1000
-26	560	-2	56	-33	1100
-27	620	-3	62	-34	1200
-28	680	-4	68	-35	1300
-29	750	-5	75	-36	1500
-30	820	-6	82	-37	1600
-31	910	-7	91	-38	1800
-32	1000	-8	100	-39	2000
-33	1100	-9	110	-40	2200
-34	1200	-10	120	-41	2400
-35	1300	-11	130	-42	2700
-36	1500	-12	150	-43	3000
-37	1600	-13	160	-44	3300
-38	1800	-14	180	-45	3600
-39	2000	-15	200	-46	3900
-40	2200	-16	220	-47	4300
-41	2400	-17	240	-48	4700
-42	2700	-18	270	1006750-49	5100
-43	3000	-19	300		
-44	3300	-20	330		
-45	3600	-21	360		
-46	3900	-22	390		
-47	4300	-23	430		
-48	4700	-24	470		
1006750-49	5100	1006750-25	510		

CITY	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG. NO.
HOUSTON		SCHEMATIC, ERASABLE	
LIST OF MATERIALS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ON FRACTIONS: DECIMALS: ANGLES: DO NOT SCALE THIS DRAWING.		SCHEMATIC, ERASABLE	
HEAT TREATMENT: FINAL FINISH: MATERIAL: NEXT ASSY: USED ON: APPLICATION:		SCHEMATIC, ERASABLE	
NASA APPROVAL: [Signature]		NASA APPROVAL: [Signature]	
NASA DRAWING NO. 1006118		NASA DRAWING NO. 1006118	
SCALE: 1/4" = 1"		SCALE: 1/4" = 1"	
SHEET 1 OF 1		SHEET 1 OF 1	



1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. UNLESS OTHERWISE SPECIFIED, RESISTOR VALUES ARE IN OHMS.
3. THE VALUE OF R3, R11, R15, R18 TO BE DETERMINED BY ELECTRICAL TEST. SEE TABLES II AND III.
4. CIRCUIT NO. 40420 THRU 40427 AND 40428 TO BE IN MODULE B14.
5. CIRCUIT NO. 40410 THRU 40417 AND 40418 TO BE IN MODULE B13.

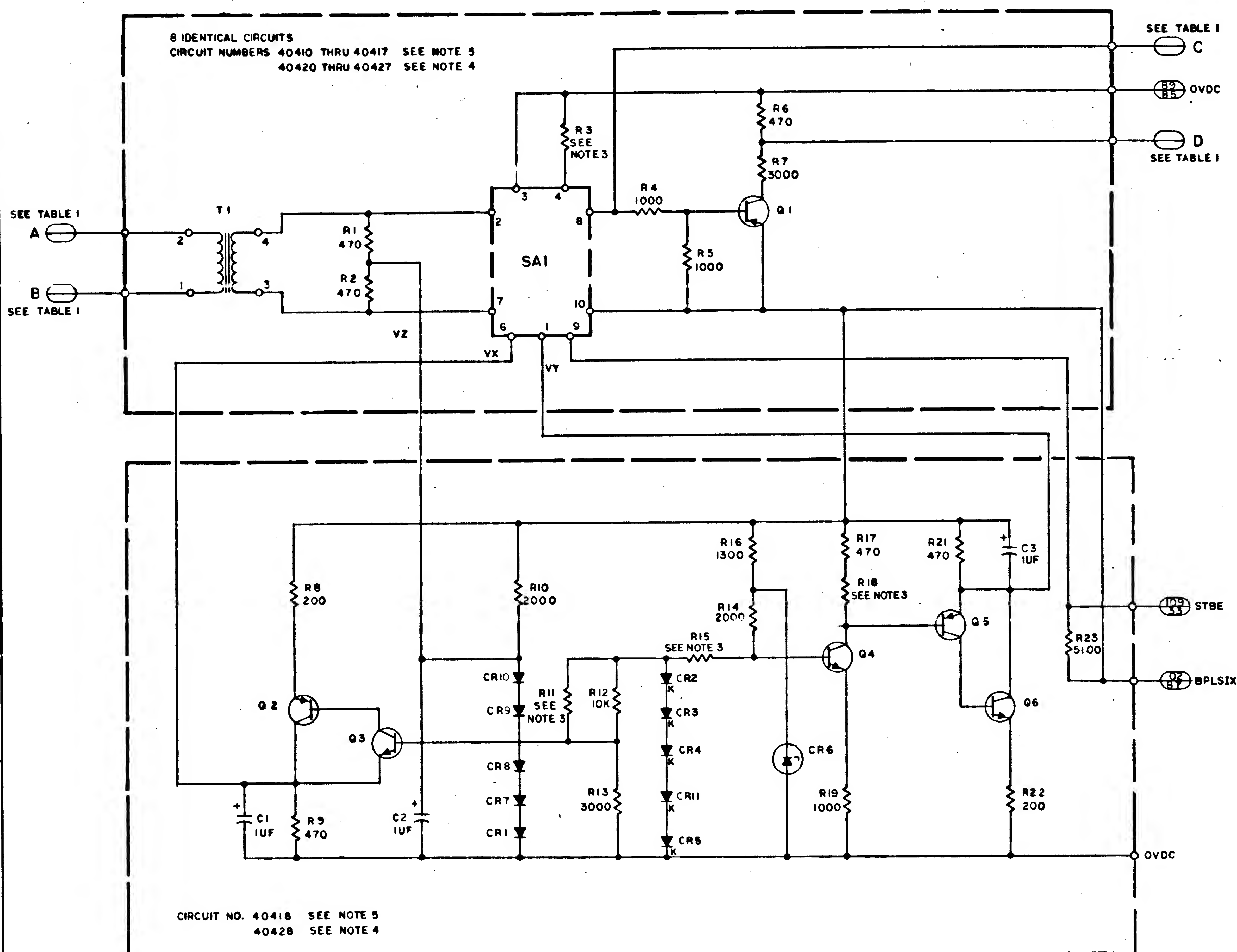


TABLE II

R11		R11	
PART NO.	VALUE	PART NO.	VALUE
1006750-15	200	1006750-31	910
-16	220	-32	1000
-7	240	-33	1100
-18	270	-34	1200
-19	300	-35	1300
-20	330	-36	1500
-21	360	-37	1600
-22	390	-38	1800
-23	430	-39	2000
-24	470	-40	2200
-25	510	-41	2400
-26	560	-42	2700
-27	620	-43	3000
-28	680	-44	3300
-29	750	-45	3600
1006750-30	820	1006750-46	3900

TABLE I

COMPONENT PREFIX NO. (ASSY)	CIRCUIT NO.	A	B	C	D
1	40410	SAF01 90	SBF01 100	SA01 110	SA01 110
2	40411	SAF02 91	SBF02 101	SA02 111	SA02 111
3	40412	SAF03 92	SBF03 102	SA03 112	SA03 112
4	40413	SAF04 93	SBF04 103	SA04 113	SA04 113
5	40414	SAF05 94	SBF05 104	SA05 114	SA05 114
6	40415	SAF06 95	SBF06 105	SA06 115	SA06 115
7	40416	SAF07 96	SBF07 106	SA07 116	SA07 116
8	40417	SAF08 97	SBF08 107	SA08 117	SA08 117
1	40420	SAF09 90	SBF09 100	SA09 110	SA09 110
2	40421	SAF10 91	SBF10 101	SA10 111	SA10 111
3	40422	SAF11 92	SBF11 102	SA11 112	SA11 112
4	40423	SAF12 93	SBF12 103	SA12 113	SA12 113
5	40424	SAF13 94	SBF13 104	SA13 114	SA13 114
6	40425	SAF14 95	SBF14 105	SA14 115	SA14 115
7	40426	SAF15 96	SBF15 106	SA15 116	SA15 116
8	40427	SAF16 97	SBF16 107	SA16 117	SA16 117

TABLE III

R3		R15		R18	
PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE
1006750-25	510	1006750-1	51	1006750-32	1000
-26	560	-2	56	-33	1100
-27	620	-3	62	-34	1200
-28	680	-4	68	-35	1300
-29	750	-5	75	-36	1500
-30	820	-6	82	-37	1600
-31	910	-7	91	-38	1800
-32	1000	-8	100	-39	2000
-33	1100	-9	110	-40	2200
-34	1200	-10	120	-41	2400
-35	1300	-11	130	-42	2700
-36	1500	-12	150	-43	3000
-37	1600	-13	160	-44	3300
-38	1800	-14	180	-45	3500
-39	2000	-15	200	-46	3900
-40	2200	-16	220	-47	4300
-41	2400	-17	240	-48	4700
-42	2700	-18	270	1006750-49	5100
-43	3000	-19	300		
-44	3300	-20	330		
-45	3600	-21	360		
-46	3900	-22	390		
-47	4300	-23	430		
-48	4700	-24	470		
1006750-49	5100	1006750-25	510		

- NOTES:
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
 - UNLESS OTHERWISE SPECIFIED, RESISTOR VALUES ARE IN OHMS. CAPACITOR VALUES ARE IN MICROFARADS.
 - THE VALUE OF R3, R11, R15, R18 TO BE DETERMINED BY ELECTRICAL TEST. SEE TABLES II AND III.
 - CIRCUIT NO. 40420 THRU 40427 AND 40428 TO BE IN MODULE B14.
 - CIRCUIT NO. 40410 THRU 40417 AND 40418 TO BE IN MODULE B13.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ON: FRACTIONS DECIMALS ANGLES. DO NOT SCALE THIS DRAWING. MATERIAL: HEAT TREATMENT: FINISH: NEXT ASSY: USED ON: APPLICATION:

INSTRUMENTATION LAB. CHECKED: DRAWN: DATE: APPROVAL: NASA APPROVAL: Manned Spacecraft Center, Houston, Texas. SCHEMATIC, ERASABLE SENSE AMPL MODULE 813-B14. NASA DRAWING NO. 1006118. SHEET 1 OF 1.

1. THIS DRAWING IS THE PROPERTY OF THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. IT IS TO BE USED FOR THE PURPOSES SPECIFIED IN THE CONTRACT. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.

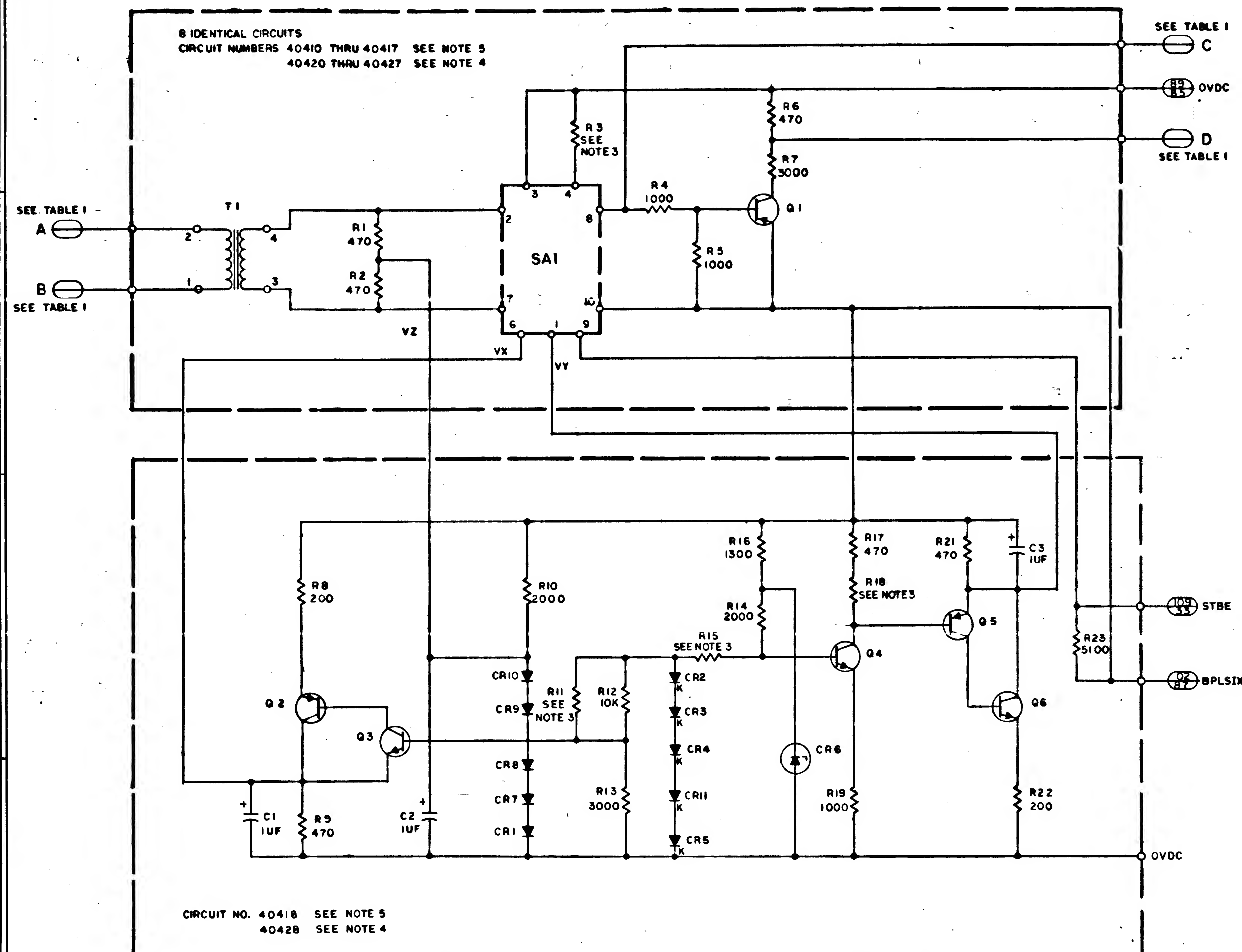


TABLE II

R11	VALUE	R11	VALUE
1006750-15	200	1006750-31	910
-16	220	-32	1000
-7	240	-33	1100
-18	270	-34	1200
-19	300	-35	1300
-20	330	-36	1500
-21	350	-37	1600
-22	320	-38	1800
-23	430	-39	2000
-24	470	-40	2200
-25	510	-41	2400
-26	560	-42	2700
-27	620	-43	3000
-28	680	-44	3300
-29	750	-45	3600
1006750-30	820	1006750-46	3900

NOTES:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- UNLESS OTHERWISE SPECIFIED, RESISTOR VALUES ARE IN OHMS. CAPACITOR VALUES ARE IN MICROFARADS
- THE VALUE OF R2, R11, R15, R18 TO BE DETERMINED BY ELECTRICAL TEST. SEE TABLES II AND III
- CIRCUIT NO. 40420 THRU 40427 AND 40428 TO BE IN MODULE B14
- CIRCUIT NO. 40410 THRU 40417 AND 40418 TO BE IN MODULE B13

TABLE I

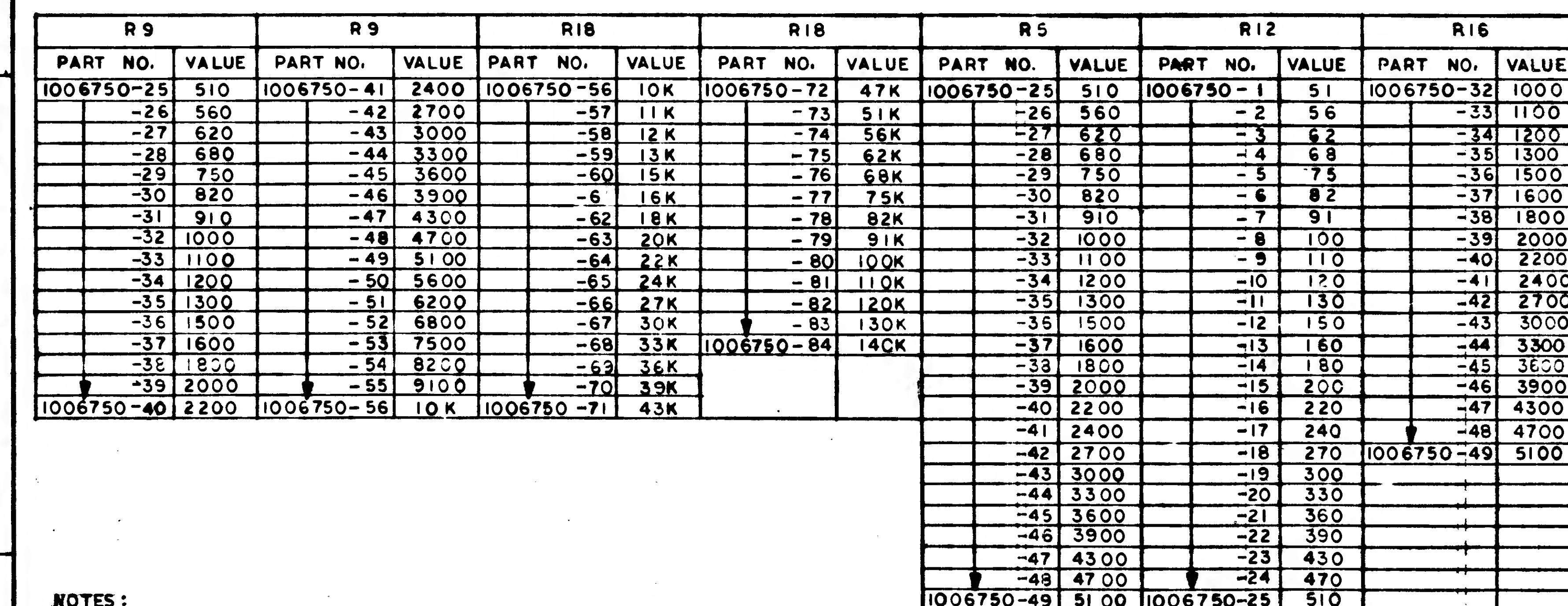
COMPONENT PREFIX NO. (ASSY)	CIRCUIT NO.	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5
1	40410	SAF01	90	8	SBF01	100	6	40410A	80	2	SA01	110	4
2	40411	SAF02	91	7	SBF02	101	5	40411A	81	13	SA02	111	11
3	40412	SAF03	92	24	SBF03	102	22	40412A	82	18	SA03	112	20
4	40413	SAF04	93	23	SBF04	103	25	40413A	83	29	SA04	113	27
5	40414	SAF05	94	62	SBF05	104	60	40414A	84	54	SA05	114	56
6	40415	SAF06	95	61	SBF06	105	63	40415A	85	67	SA06	115	65
7	40416	SAF07	96	78	SBF07	106	76	40416A	86	70	SA07	116	72
8	40417	SAF08	97	77	SBF08	107	79	40417A	87	83	SA08	117	81
1	40420	SAF09	90	8	SBF09	100	6	40420A	80	2	SA09	110	4
2	40421	SAF10	91	7	SBF10	101	5	40421A	81	13	SA10	111	11
3	40422	SAF11	92	24	SBF11	102	22	40422A	82	18	SA11	112	20
4	40423	SAF12	93	23	SBF12	103	25	40423A	83	29	SA12	113	27
5	40424	SAF13	94	62	SBF13	104	60	40424A	84	54	SA13	114	56
6	40425	SAF14	95	61	SBF14	105	63	40425A	85	67	SA14	115	65
7	40426	SAF15	96	78	SBF15	106	76	40426A	86	70	SA15	116	72
8	40427	SAF16	97	77	SBF16	107	79	40427A	87	83	SA16	117	81

TABLE III

R3	VALUE	R15	VALUE	R18	VALUE
1006750-25	510	1006750-1	51	1006750-32	1000
-26	560	-2	56	-33	1100
-27	620	-3	62	-34	1200
-28	680	-4	68	-35	1300
-29	750	-5	75	-36	1500
-30	820	-6	82	-37	1600
-31	910	-7	91	-38	1800
-32	1000	-8	100	-39	2000
-33	1100	-9	110	-40	2200
-34	1200	-10	120	-41	2400
-35	1300	-11	130	-42	2700
-36	1500	-12	150	-43	3000
-37	1600	-13	160	-44	3300
-38	1800	-14	180	-45	3600
-39	2000	-15	200	-46	3900
-40	2200	-16	220	-47	4300
-41	2400	-17	240	-48	4700
-42	2700	-18	270	1006750-49	5100
-43	3000	-19	300		
-44	3300	-20	330		
-45	3600	-21	360		
-46	3900	-22	390		
-47	4300	-23	430		
-48	4700	-24	470		
1006750-49	5100	1006750-25	510		

INACTIVE AFTER SYSTEM NO. 8 FOR NEW PROCUREMENT USE. 1006187

QTY. REQD.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG. NO.
LIST OF MATERIALS			
INSTRUMENTATION LAB			
MANNED SPACECRAFT CENTER			
HOUSTON, TEXAS			
SCHEMATIC, ERASABLE			
SENSE AMPL. MODULE B13-B14			
NADA APPROVAL			
SCALE			
SHEET 1 OF 1			



1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. UNLESS OTHERWISE SPECIFIED:
 - RESISTOR VALUES ARE IN OHMS
 - CAPACITOR VALUES ARE IN MICROFARADS
3. THE VALUE OF R5, R9, R12, R16, R18 TO BE DETERMINED BY ELECTRICAL TEST. SEE TABLES
4. CIRCUIT NO. 40440 THRU 40447 AND 40448 TO BE IN MODULE NO. 2

CIRCUIT NO.	A			B			C			D		
	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5
40430	GAR01		4	GBR01		6	40410A		2	+ 3 M		1
40431	GAR02		11	GBR02		9	40411A		13			16
40432	GAR03		20	GBR03		22	40412A		18			17
40433	GAR04		27	GBR04		25	40413A		29			32
40434	GAR05		58	GBR05		60	40414A		54			53
40435	GAR06		65	GBR06		63	40415A		67			68
40436	GAR07		74	GBR07		76	40416A		70	↓		69
40437	GAR08		81	GBR08		79	40416A		85	+ 3 M		84
40440	GAR09			GBR09			40420A			+ 3 M		
40441	GAR10			GBR10			40421A					
40442	GAR11			GBR11			40422A					
40443	GAR12			GBR12			40423A					
40444	GAR13			GBR13			40424A					
40445	GAR14			GBR14			40425A					
40446	GAR15			GBR15			40426A			↓		
40447	GAR16			GBR16			40427A			+ 3 M		

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CKT NO. USED ON
R1	1006750 - 32	RESISTOR	1000	2%	1/4 W	
R2	- 32		1000			40430THRU40437
R3	- 24		470			
R4	- 24		470			40440 THRU 40447
R5	-	SEE NOTE				
R6	- 16		220			40438, 40448
R7	- 25		510			
R8	- 32		1000			
R9	-	SEE NOTE				
R10	- 23		430			
R11	- 32		1000			
R12		SEE NOTE				
R13	1006760 - 20		330		1/2 W	
R14	1006750 - 25		510		1/4 W	
R15	- 25		510			
R16	-	SEE NOTE				
R17	- 32		1000			
R18	-	SEE NOTE				
R19	- 25		510			
R20	- 14		180		1/4 W	
C1	1006755 - 68	CAPACITOR	1 UF		35V	
C2	- 68					
C3	- 68					
L1	1010406 - 13	COIL	33 UH			40430 THRU 40437
L2	1010406 - 13		33UH			40440THRU40447
CR1	1010372 - 7	DIODE				40438, 40448
CR2	1006751					
CR3						
CR4						
CR5	1006751					
CR6	1006758					
Q1	1006753	TRANSISTOR				
Q2	1006752					
Q3	1006752					
Q4	1006753					
Q5	1006752					
T1	1006752	TRANSFORMER				40430THRU 40437
SA1	1006769	SENSE AMPL				40440THRU 40447

CLASS B RELEASE TDR No. 01967 DATE 11-1-78

ATE

010610

MASTER

		QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO		
						LIST OF MATERIALS				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ± ± DO NOT SCALE THIS DRAWING MATERIAL _____ HEAT TREATMENT _____ NEXT ASSY USED ON _____ APPLICATION _____ FINISH _____		M.I.T. INSTRUMENTATION LAB Cambridge, Mass ISS. NO. _____ DESIG. DATE _____ DRAWN BY <u>C. R. Lee</u> CHECKED _____ APPROVAL <u>[Signature]</u> DATE <u>7-10</u> APPROVAL <u>[Signature]</u> DATE <u>July 13</u>				MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC, ROPE SENSE AMPL MODULE				
		NASA APPROVAL <u>[Signature]</u>				CODE IDENT NO.		SIZE		NASA DRAWING NO.
		MIT APPROVAL <u>[Signature]</u>				SCALE _____		E		1006119
						BY _____		DATE _____		SHEET _____ OF _____

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REVISIONS
A REVISED AND UPGRADED TO CLASS A PER DRR 63129
DATE 10/2/79
APPROVAL [Signature]

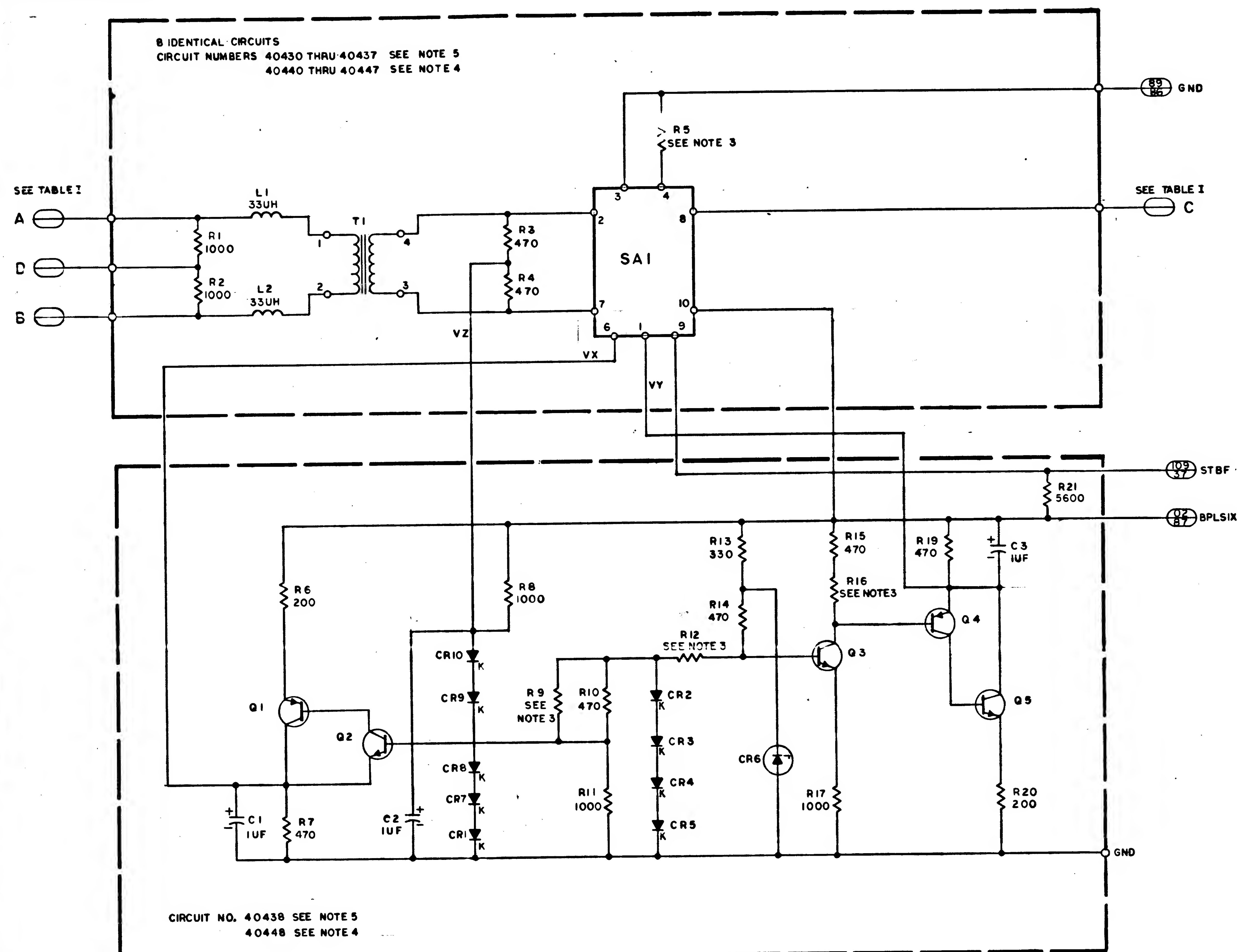


TABLE III

PART NO.	VALUE	PART NO.	VALUE
1006750-25	510	1006750-41	2400
-26	560	-42	2700
-27	620	-43	3000
-28	680	-44	3300
-29	750	-45	3600
-30	820	-46	3900
-31	910	-47	4300
-32	1000	-48	4700
-33	1100	-49	5100
-34	1200	-50	5600
-35	1300	-51	6200
-36	1500	-52	6800
-37	1600	-53	7500
-38	1800	-54	8200
-39	2000	-55	9100
1006750-40	2200	1006750-56	10 K

TABLE II

PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE
1006750-25	510	1006750-1	51	1006750-32	1000
-26	560	-2	56	-33	1100
-27	620	-3	62	-34	1200
-28	680	-4	68	-35	1300
-29	750	-5	75	-36	1500
-30	820	-6	82	-37	1600
-31	910	-7	91	-38	1800
-32	1000	-8	100	-39	2000
-33	1100	-9	110	-40	2200
-34	1200	-10	120	-41	2400
-35	1300	-11	130	-42	2700
-36	1500	-12	150	-43	3000
-37	1600	-13	160	-44	3300
-38	1800	-14	180	-45	3600
-39	2000	-15	200	-46	3900
-40	2200	-16	220	-47	4300
-41	2400	-17	240	-48	4700
-42	2700	-18	270	1006750-49	5100
-43	3000	-19	300		
-44	3300	-20	330		
-45	3600	-21	360		
-46	3900	-22	390		
-47	4300	-23	430		
-48	4700	-24	470		
1006750-49	5100	1006750-25	510		

TABLE I

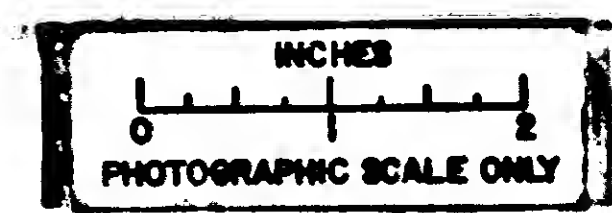
SAI

CIRCUIT NO.	A				B				C				D				COMPONENT PREFIX NO. (ASSY)
	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5		SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5		SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5		SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5		
40430	GAR01	90	04		GBR01	100	06		40410A	110	02		+ 3 MZ	80	01	2	
40431	GAR02	91	11		GBR02	101	09		40411A	111	13						
40432	GAR03	92	20		GBR03	102	22		40412A	112	18						
40433	GAR04	93	27		GBR04	103	25		40413A	113	29						
40434	GAR05	94	58		GBR05	104	60		40414A	114	54						
40435	GAR06	95	65		GBR06	105	63		40415A	115	67						
40436	GAR07	96	74		GBR07	106	76		40416A	116	70						
40437	GAR08	97	81		GBR08	107	79		40417A	117	83		+ 3 MZ	80	01	2	
40440	GAR09	90	04		GBR09	100	06		40420A	110	02		+ 3 MZ	80	01	2	
40441	GAR10	91	11		GBR10	101	09		40421A	111	13						
40442	GAR11	92	20		GBR11	102	22		40422A	112	18						
40443	GAR12	93	27		GBR12	103	25		40423A	113	29						
40444	GAR13	94	58		GBR13	104	60		40424A	114	54						
40445	GAR14	95	65		GBR14	105	63		40425A	115	67						
40446	GAR15	96	74		GBR15	106	76		40426A	116	70						
40447	GAR16	97	81		GBR16	107	79		40427A	117	83		+ 3 MZ	80	01	2	

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CKT NO. USED ON
R1	1006750-32	RESISTOR	1000	2%	1/4 W	40430THRU40437
R2	-32		1000			
R3	-24		470			40440THRU40447
R4	-24		470			
R5	-	SEE NOTE 3				
R6	-15		200			40438, 40448
R7	-24		470			
R8	-32		1000			
R9	-	SEE NOTE 3				
R10	-24		1000			
R11	-32		470			
R12	-	SEE NOTE 3				
R13	1006760-20		330		1/2 W	
R14	1006750-24		470		1/4 W	
R15	-24		470			
R16	-	SEE NOTE 3				
R17	-32		1000			
R18	-24		470			
R19	-14		180			
R20	-14		180			
R21	-50		5600			
C1	1006755-68	CAPACITOR	1UF		35V	
C2	-68					
C3	-68					
L1	1010406-13	COIL	33UH			40430THRU40437
L2	1010406-13		33UH			40440THRU40447
CR1	1006751	DIODE				
CR2						
CR3						
CR4						40438, 40448
CR5						
CR6	1006838					
CR7	1006751					
CR8						
CR9						
CR10						
Q1	1006753	TRANSISTOR				
Q2	1006752					
Q3	1006752					
Q4	1006753					
Q5	1006752					
T1	1006762	TRANSFORMER				40430THRU40437
SA1	1006769	SENSE AMPL				40440THRU40447

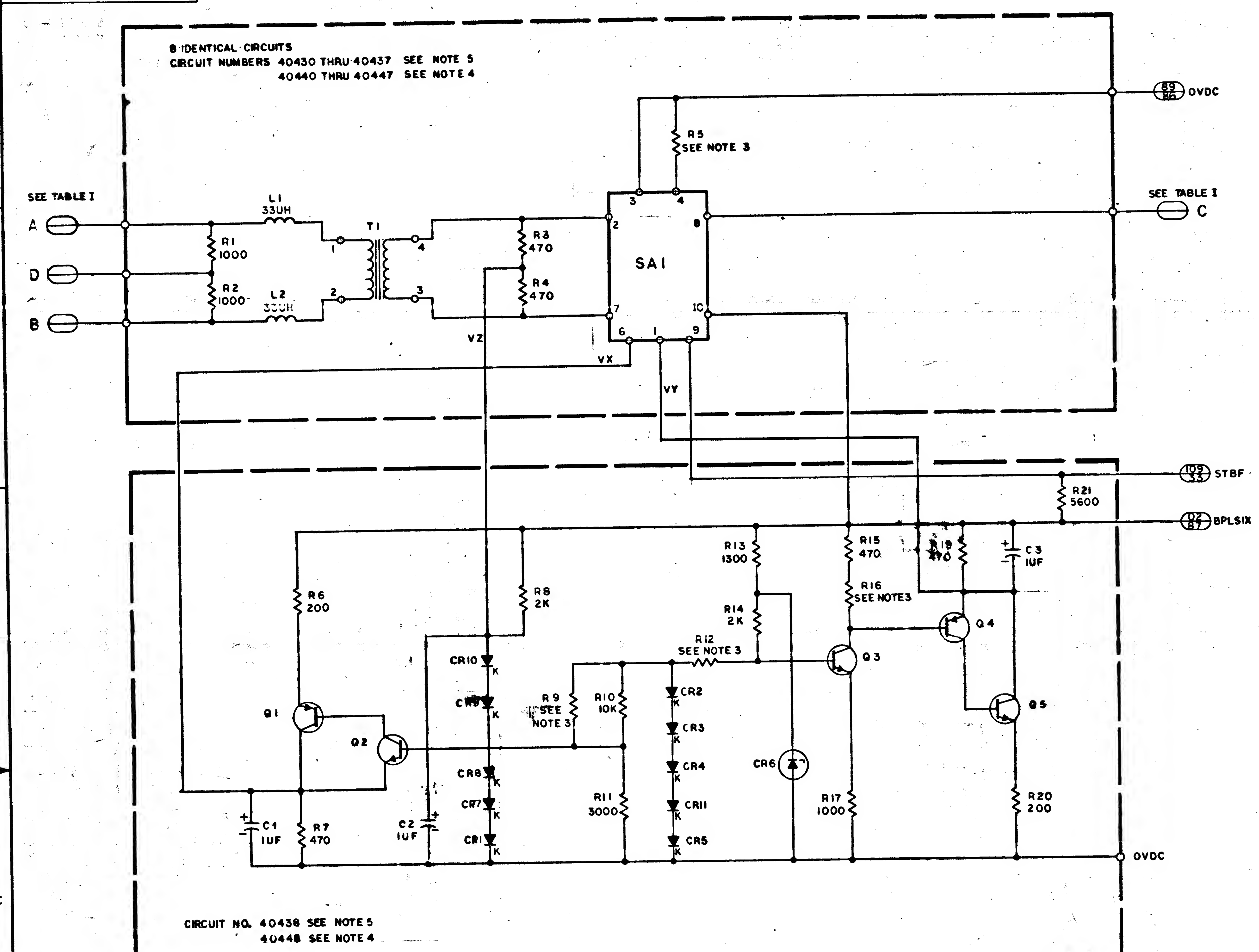
NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. UNLESS OTHERWISE SPECIFIED:
RESISTOR VALUES ARE IN OHMS
CAPACITOR VALUES ARE IN MICROFARADS
3. THE VALUE OF R5, R9, R12, R16 TO BE DETERMINED BY ELECTRICAL TEST. SEE TABLES II, III
4. CIRCUIT NO. 40440 THRU 40447 AND 40448 TO BE IN MODULE B27
5. CIRCUIT NO. 40430 THRU 40437 AND 40438 TO BE IN MODULE B26

MASTER



QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG NO.
LIST OF MATERIALS			
INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER	
DRAWN BY [Signature]		CHECKED BY [Signature]	
APPROVED BY [Signature]		APPROVED BY [Signature]	
NASA APPROVAL [Signature]		NASA APPROVAL [Signature]	
NXT ASSY		USED ON	
APPLICATION		SCALE	
E		1006119	
SHEET 1 OF 1			

REV	DESCRIPTION	DATE	APPROVAL
A	REVISED AND UPGRADED TO CLASS A PER TDRR 63129	10/6/51	W
B	REVISED PER TDRR 63129	10/6/51	W



REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CKT NO. USED ON
R1	1006750 - 32	RESISTOR	1000	2%	1/4 W	40430 THRU 40437
R2	- 32		1000			
R3	- 24		470			40440 THRU 40447
R4	- 24		470			
R5	-	SEE NOTE 3				
R6	- 15		200			40438, 40448
R7	- 24		470			
R8	- 39	SEE NOTE 2				
R9	-		2K			
R10	- 56		10K			
R11	- 43		3K			
R12	-	SEE NOTE 3				
R13	- 35		1300			
R14	- 39		2K			
R15	- 24		470			
R16	-	SEE NOTE 3				
R17	-		1000			
R18	-					
R19	- 24		470			
R20	- 15		200			
R21	- 50		5600			
C1	1006755 - 69	CAPACITOR	1 UF		35V	
C2	- 69					
C3	- 69					
L1	1010406 - 13	COIL	33 UH			40430 THRU 40437
L2	1010406 - 13		33 UH			40440 THRU 40447
CR1	1006751	DIODE				
CR2						
CR3						
CR4						40438, 40448
CR5						
CR6	1006838					
CR7	1006751					
CR8						
CR9						
CR10						
CR11						
Q1	1006753	TRANSISTOR				
Q2	1006752					
Q3	1006752					
Q4	1006753					
Q5	1006752					
T1	1006762	TRANSFORMER				40430 THRU 40437
SA1	1006769	SENSE AMPL				40440 THRU 40447

TABLE III

PART NO.	VALUE	PART NO.	VALUE
1006750-25	510	1006750-41	2400
-26	560	-42	2700
-27	620	-43	3000
-28	680	-44	3300
-29	750	-45	3600
-30	820	-46	3900
-31	910	-47	4300
-32	1000	-48	4700
-33	1100	-49	5100
-34	1200	-50	5600
-35	1300	-51	6200
-36	1500	-52	6800
-37	1600	-53	7500
-38	1800	-54	8200
-39	2000	-55	9100
1006750-40	2200	1006750-56	10 K

TABLE II

PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE
1006750-25	510	1006750-1	51	1006750-32	1000
-26	560	-2	56	-33	1100
-27	620	-3	62	-34	1200
-28	680	-4	68	-35	1300
-29	750	-5	75	-36	1500
-30	820	-6	82	-37	1600
-31	910	-7	91	-38	1800
-32	1000	-8	100	-39	2000
-33	1100	-9	110	-40	2200
-34	1200	-10	120	-41	2400
-35	1300	-11	130	-42	2700
-36	1500	-12	150	-43	3000
-37	1600	-13	160	-44	3300
-38	1800	-14	180	-45	3600
-39	2000	-15	200	-46	3900
-40	2200	-16	220	-47	4300
-41	2400	-17	240	-48	4700
-42	2700	-18	270	1006750-49	5100
-43	3000	-19	300		
-44	3300	-20	330		
-45	3600	-21	360		
-46	3900	-22	390		
-47	4300	-23	430		
-48	4700	-24	470		
1006750-49	5100	1006750-25	510		

TABLE I

CIRCUIT NO.	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	COMPONENT PREFIX NO. (ASSY)
40430	GAR01	90	04	GBR01	100	06	40410A	110	02	+ 3 MZ	80	01	2
40431	GAR02	91	11	GBR02	101	09	40411A	111	13			16	4
40432	GAR03	92	20	GBR03	102	22	40412A	112	18			17	4
40433	GAR04	93	27	GBR04	103	25	40413A	113	29			32	3
40434	GAR05	94	58	GBR05	104	60	40414A	114	54			53	6
40435	GAR06	95	65	GBR06	105	63	40415A	115	67			68	5
40436	GAR07	96	74	GBR07	106	76	40416A	116	70			69	8
40437	GAR08	97	81	GBR08	107	79	40417A	117	83	+ 3 MZ	80	84	7
40440	GAR09	90	04	GBR09	100	06	40420A	110	02	+ 3 MZ	80	01	2
40441	GAR10	91	11	GBR10	101	09	40421A	111	13			16	1
40442	GAR11	92	20	GBR11	102	22	40422A	112	18			17	4
40443	GAR12	93	27	GBR12	103	25	40423A	113	29			32	3
40444	GAR13	94	58	GBR13	104	60	40424A	114	54			53	6
40445	GAR14	95	65	GBR14	105	63	40425A	115	67			68	5
40446	GAR15	96	74	GBR15	106	76	40426A	116	70			69	8
40447	GAR16	97	81	GBR16	107	79	40427A	117	83	+ 3 MZ	80	84	7

- NOTES:
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 - UNLESS OTHERWISE SPECIFIED: RESISTOR VALUES ARE IN OHMS CAPACITOR VALUES ARE IN MICROFARADS
 - THE VALUE OF R5, R9, R12, R16 TO BE DETERMINED BY ELECTRICAL TEST. SEE TABLES II, III
 - CIRCUIT NO. 40440 THRU 40447 AND 40448 TO BE IN MODULE B27
 - CIRCUIT NO. 40430 THRU 40437 AND 40438 TO BE IN MODULE B26

MASTER

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES

DO NOT SCALE THIS DRAWING

HEAT TREATMENT

FINAL FINISH

APPLICATION

QTY REQD

PART OR IDENTIFYING NO.

NOMENCLATURE OR DESCRIPTION

FIG NO.

LIST OF MATERIALS

INSTRUMENTATION LAB

MANUFACTURED BY

SCHEMATIC, ROPE

SENSE AMPL MODULE B26-B27

DATE

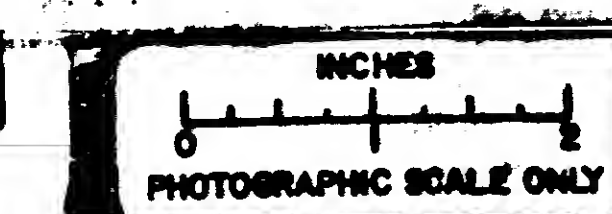
SCALE

WT

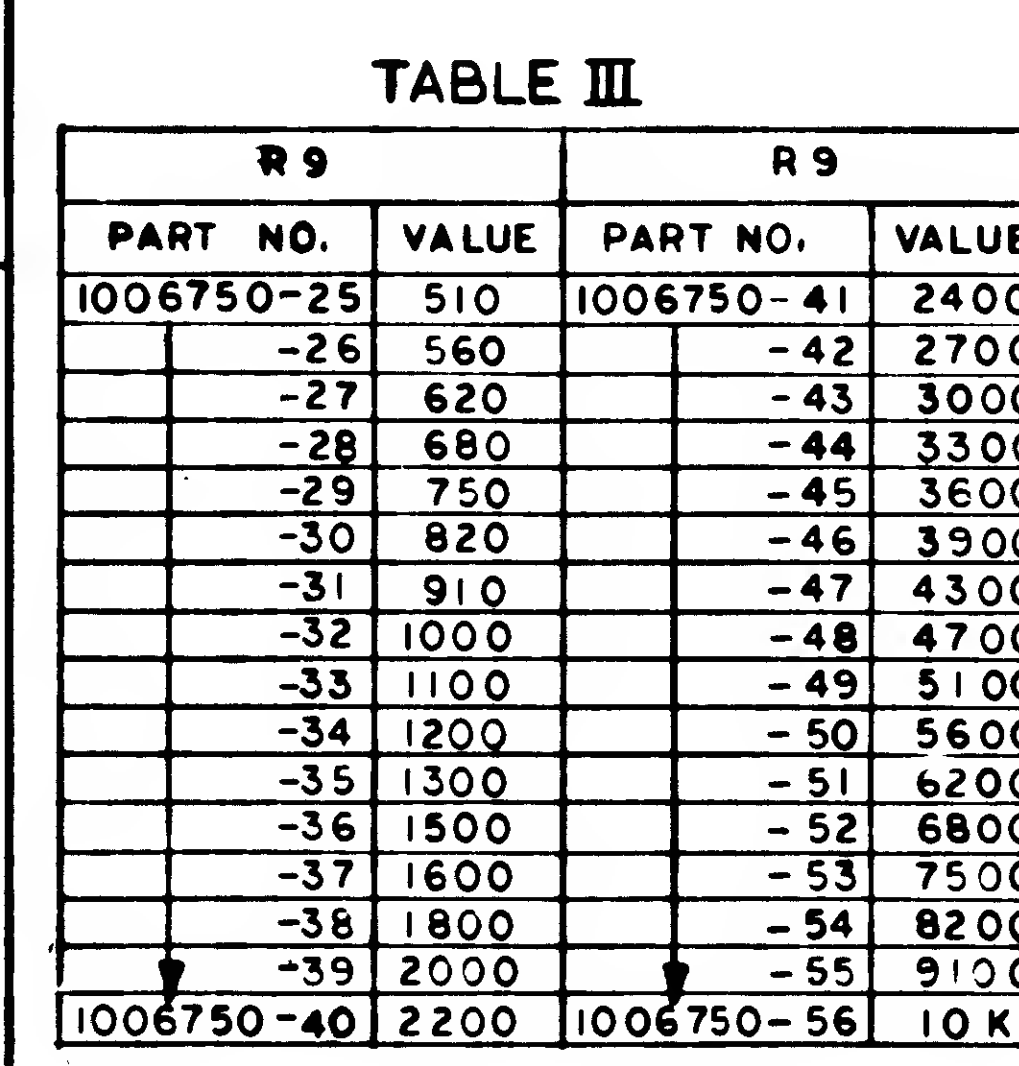
SHEET

OF

1006119



NOTICE - OVER GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITE GOVERNMENT PROCUREMENT OPERATION. THE UNITED STATES GOVERNMENT MAKES NO WARRANTY OR ASSUMES NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED OR IN ANY MANNER SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA DOES NOT BE DECEASED BY IMPLICATION OR OTHERWISE BE IN ANY MANNER LICENSE THE USER OR ANY OTHER PERSON OR CORPORATION OR CONFERS ANY RIGHT OR PERMISSION TO REPRODUCE OR TO MAKE OR SELL AN IMPROVED INVENTION THAT MAY IN ANY WAY BE RELATED THEREO.



R 5		R 12		R 16	
PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE
1006750-25	510	1006750-1	51	1006750-32	1000
-26	560	-2	56	-33	1100
-27	620	-3	62	-34	1200
-28	680	-4	68	-35	1300
-29	750	-5	75	-36	1500
-30	820	-6	82	-37	1600
-31	910	-7	91	-38	1800
-32	1000	-8	100	-39	2000
-33	1100	-9	110	-40	2200
-34	1200	-10	120	-41	2400
-35	1300	-11	130	-42	2700
-36	1500	-12	150	-43	3000
-37	1600	-13	160	-44	3300
-38	1800	-14	180	-45	3600
-39	2000	-15	200	-46	3900
-40	2200	-16	220	-47	4300
-41	2400	-17	240	-48	4700
-42	2700	-18	270	1006750-49	5100
-43	3000	-19	300		
-44	3300	-20	330		
-45	3600	-21	360		
-46	3900	-22	390		
-47	4300	-23	430		
-48	4700	-24	470		
1006750-49	5100	1006750-25	510		

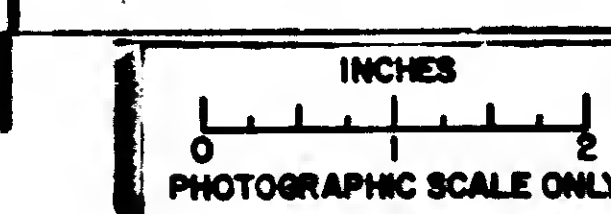
TABLE I

SAT I

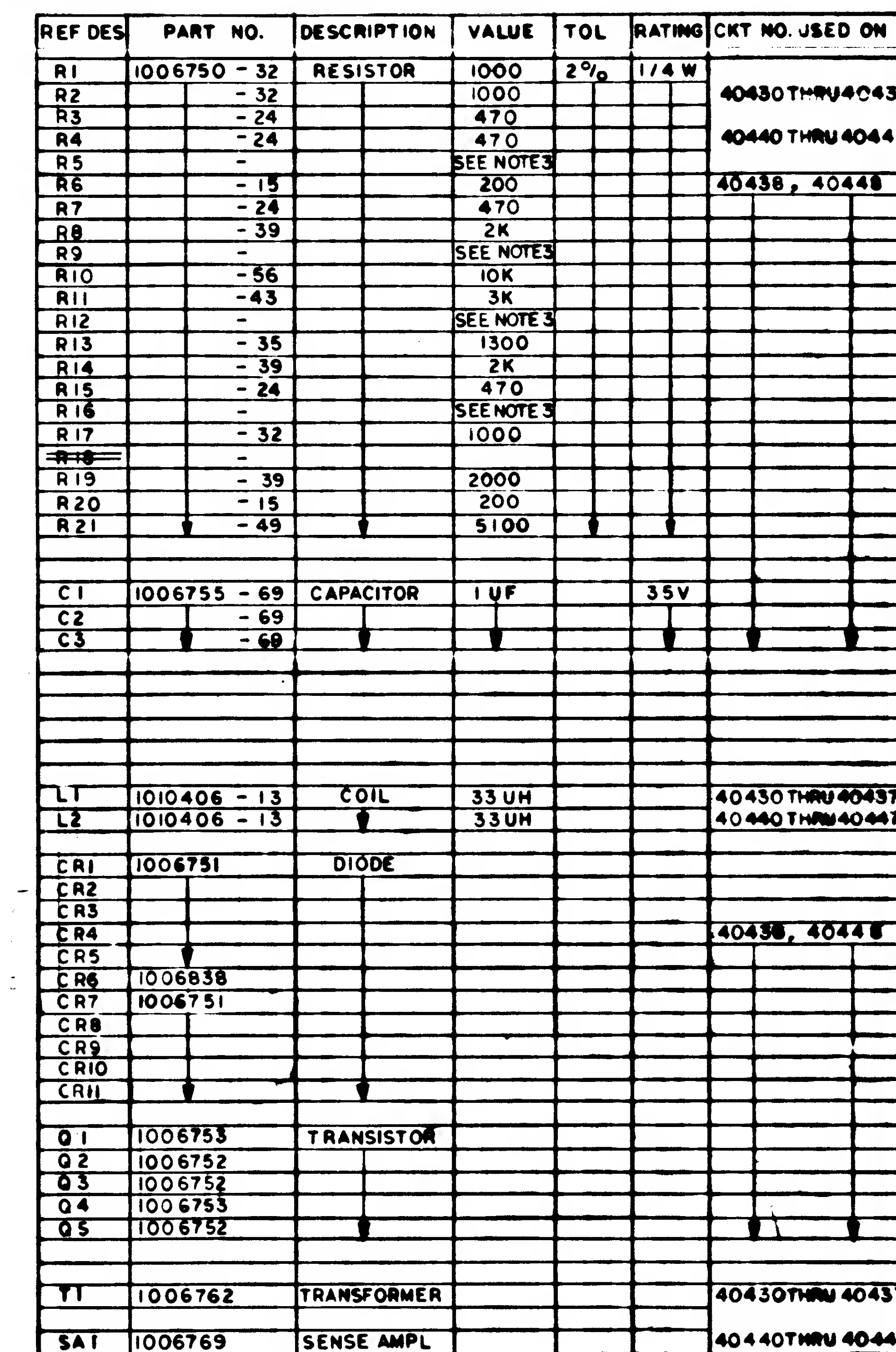
CIRCUIT NO.	A				B				C				D				PREFIX NO. (ASSY)
	SIGNAL	PIN NO. ASSG.	PIN NO. ASSG.	SIGNAL	PIN NO. ASSG.	PIN NO. ASSG.	PIN NO. ASSG.	SIGNAL	PIN NO. ASSG.	PIN NO. ASSG.	PIN NO. ASSG.	SIGNAL	PIN NO. ASSG.	PIN NO. ASSG.	PIN NO. ASSG.	PIN NO. ASSG.	
40430	GAR01	90	04	GBR01	100	06		40410A	110	13		+ 3 MZ	80	01		2	
40431	GAR02	91	11	GBR02	101	09		40411A	111	02					16	1	
40432	GAR03	92	20	GBR03	102	22		40412A	112	29					17	4	
40433	GAR04	93	27	GBR04	103	25		40413A	113	18					32	3	
40434	GAR05	94	58	GBR05	104	60		40414A	114	67					53	6	
40435	GAR06	95	65	GBR06	105	63		40415A	115	54					68	5	
40436	GAR07	96	74	GBR07	106	76		40416A	116	83					69	8	
40437	GAR08	97	81	GBR08	107	79		40417A	117	70		+ 3 MZ	80	04		7	
40440	GAR09	90	04	GBR09	100	06		40420A	110	13		+ 3 MZ	80	01		2	
40441	GAR10	91	11	GBR10	101	09		40421A	111	02					16	1	
40442	GAR11	92	20	GBR11	102	22		40422A	112	29					17	4	
40443	GAR12	93	27	GBR12	103	25		40423A	113	18					32	3	
40444	GAR13	94	58	GBR13	104	60		40424A	114	67					53	6	
40445	GAR14	95	65	GBR14	105	63		40425A	115	54					68	5	
40446	GAR15	96	74	GBR15	106	76		40426A	116	83					69	8	
40447	GAR16	97	81	GBR16	107	79		40427A	117	70		+ 3 MZ	80	04		7	

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CKT NO. USED ON
R1	1006750 - 32	RESISTOR	1000	2%	1/4 W	
R2	- 32		1000			40430 THRU 40437
R3	- 24		470			40440 THRU 40447
R4	- 24		470			
R5	-	SEE NOTE 3				
R6	- 15		200			40438, 40448
R7	- 24		470			
R8	- 39		2K			
R9	-	SEE NOTE 3				
R10	- 56		10K			
R11	- 43		3K			
R12	-	SEE NOTE 3				
R13	- 35		1300			
R14	- 39		2K			
R15	- 24		470			
R16	-	SEE NOTE 3				
R17	- 32		1000			
R18	-					
R19	- 24		470			
R20	- 15		200			
R21	↓ - 49	↓	5100	↓	↓	
C1	1006755 - 69	CAPACITOR	1 U F		35 V	
C2	- 69					
C3	↓ - 69	↓	↓	↓	↓	↓
L1	1010406 - 13	COIL	33 UH			40430 THRU 40437
L2	1010406 - 13	↓	33 UH			40440 THRU 40447
CR1	1006751	DIODE				
CR2						
CR3						
CR4						40438, 40448
CR5	↓					
CR6	1006838					
CR7	1006751					
CR8						
CR9						
CR10						
CR11	↓	↓				
Q1	1006753	TRANSISTOR				
Q2	1006752					
Q3	1006752					
Q4	1006753					
Q5	1006752	↓				↓ ↓
T1	1006762	TRANSFORMER				40430 THRU 40437
SA1	1006769	SENSE AMPL				40440 THRU 40447

- MASTER



QTY REQ PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION LIST OF MATERIALS		F P
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES OR FRACTIONS DECIMALS ± ANGLES ± DO NOT SCALE THIS DRAWING MATERIAL:		INSTANTANEOUS LAB COMMERCIAL LAB DRAWN <u>On</u> <u>10</u> <u>10</u> DATE <u>10/10/68</u> CHECKED APPROVAL <u>[Signature]</u> <u>7-10</u> APPROVAL <u>[Signature]</u> <u>10/10/68</u>		
HEAT TREATMENT NEXT ASSY USED ON APPLICATION		NASA APPROVAL <u>[Signature]</u> MTC APPROVAL <u>[Signature]</u> CODE IDENT NO. <u>E</u> SIZE <u>1006119</u> SCALE <u>1</u> WT <u>1</u> SURF <u>1</u> OF <u>1</u>		
FINISH FINISH		MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC, ROPE SENSE AMPL. MODULE B26-B27		

[illegible]

R 5		R 12		R 16	
PART NO.	VALUE	PART NO.	VALUE	PART NO.	VALUE
1006750-25	510	1006750-1	51	1006750-32	1000
-26	560	-2	56	-33	110
-27	620	-3	62	-34	1200
-28	680	-4	68	-35	1300
-29	750	-5	75	-36	1500
-30	820	-6	82	-37	1600
-31	910	-7	91	-38	1800
-32	1000	-8	100	-39	2000
-33	1100	-9	110	-40	2200
-34	1200	-10	120	-41	2400
-35	1300	-11	130	-42	2700
-36	1500	-12	150	-43	3000
-37	1600	-13	160	-44	3300
-38	1800	-14	180	-45	3600
-39	2000	-15	200	-46	3900
-40	2200	-16	220	-47	4300
-41	2400	-17	240	-48	4700
-42	2700	-18	270	1006750-49	5100
-43	3000	-19	300	-25	510
-44	3300	-20	330	-26	560
-45	3600	-21	360	-27	620
-46	3900	-22	390	-28	680
-47	4300	-23	430	-29	750
-48	4700	-24	470	-30	820
1006750-49	5100	1006750-25	510	1006750-31	910
-15	200				
-16	220				
-17	240				
-18	270				
-19	300				
-20	330				
-21	360				
-22	390				
-23	430				
1006750-24	470				

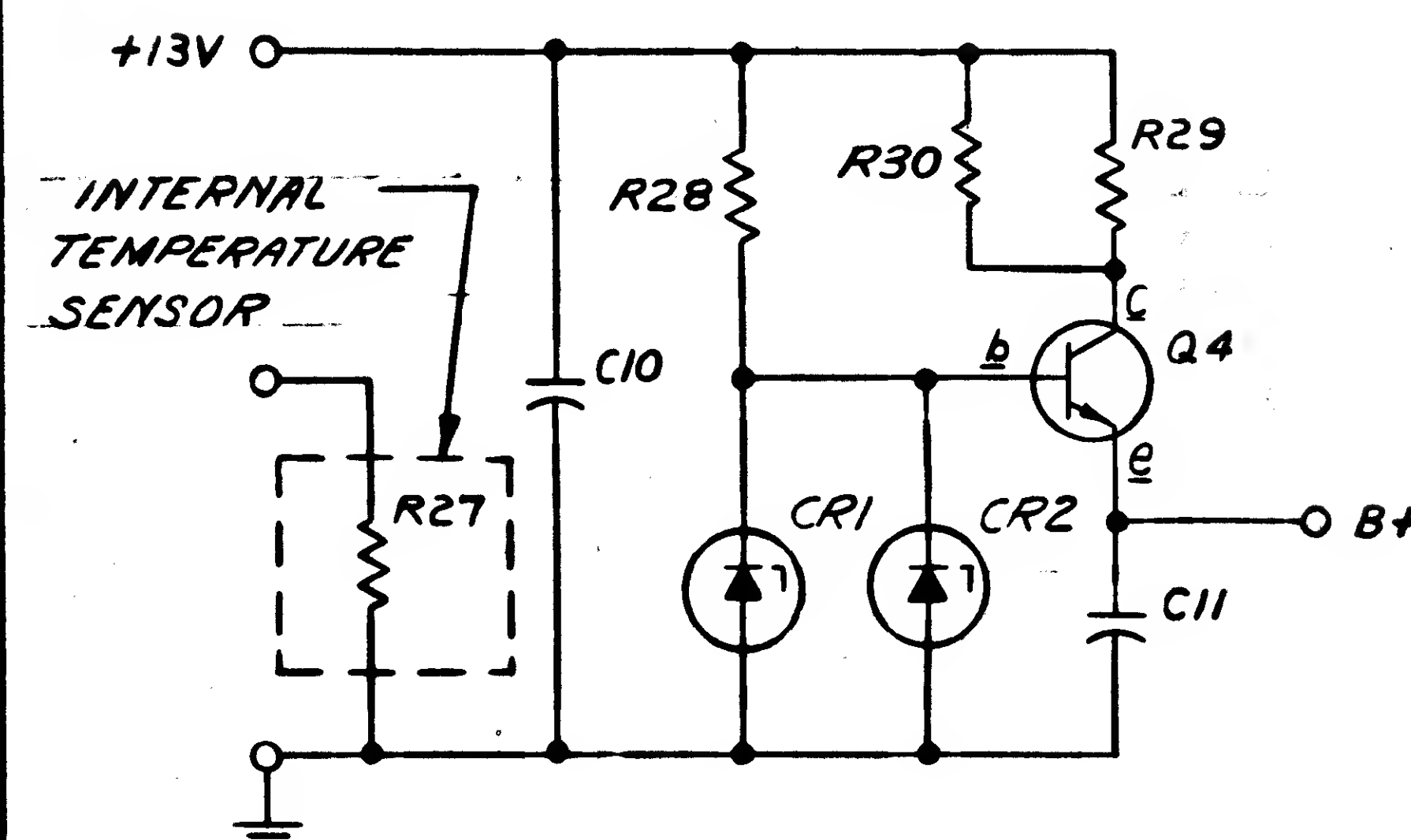
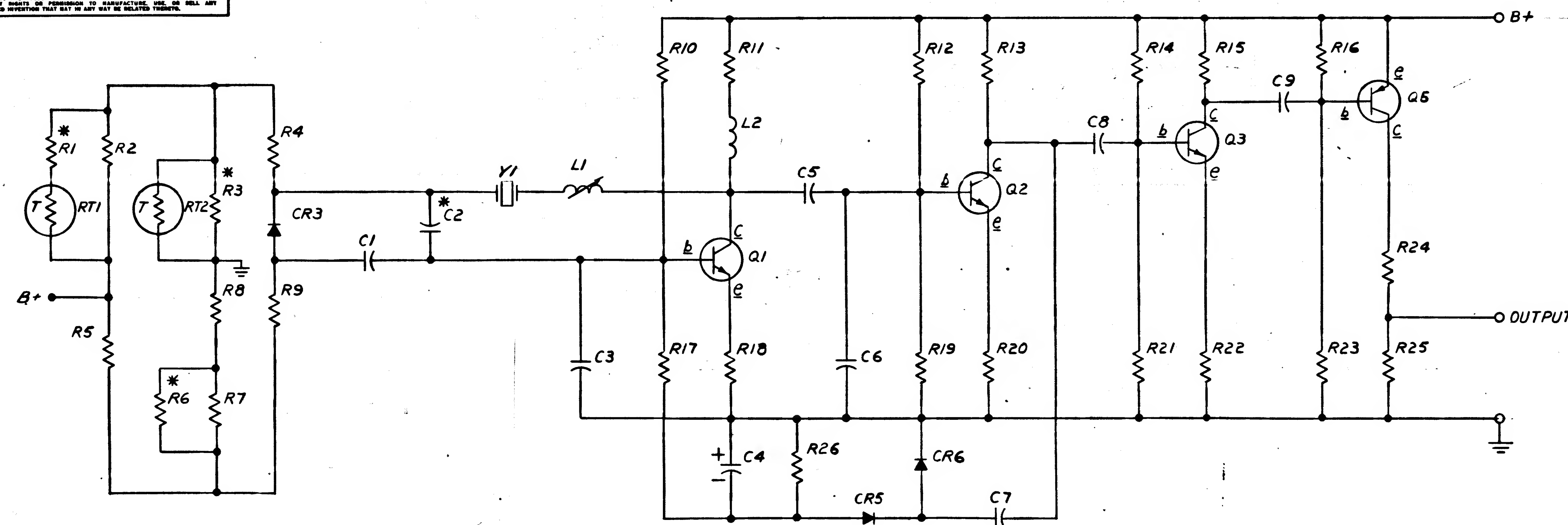
TABLE I													SAT	
CIRCUIT NO.		A			B			C			D			COMPONE
NO.	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	PREFIX (ASSY)	
40430	GAR01	90	04	G8R01	100	06	40410A	110	13	+ 3 MZ	80	01	2	
40431	GAR02	91	11	G8R02	101	09	40411A	111	02			16	1	
40432	GAR03	92	20	G8R03	102	22	40412A	112	29			17	4	
40433	GAR04	93	27	G8R04	103	25	40413A	113	18			32	3	
40434	GAR05	94	58	G8R05	104	60	40414A	114	67			53	6	
40435	GAR06	95	65	G8R06	105	63	40415A	115	54			68	5	
40436	GAR07	96	74	G8R07	106	76	40416A	116	83			69	8	
40437	GAR08	97	81	G8R08	107	79	40417A	117	70	+ 3 MZ	80	84	7	
40440	GAR09	90	04	G8R09	100	06	40420A	110	13	+ 3 MZ	80	01	2	
40441	GAR10	91	11	G8R10	101	09	40421A	111	02			16	1	
40442	GAR11	92	20	G8R11	102	22	40422A	112	29			17	4	
40443	GAR12	93	27	G8R12	103	25	40423A	113	18			32	3	
40444	GAR13	94	58	G8R13	104	60	40424A	114	67			53	6	
40445	GAR14	95	65	G8R14	105	63	40425A	115	54			68	5	
40446	GAR15	96	74	G8R15	106	76	40426A	116	83			69	8	
40447	GAR16	97	81	G8R16	107	79	40427A	117	70	+ 3 MZ	80	84	7	

- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. UNLESS OTHERWISE SPECIFIED:
RESISTOR VALUES ARE IN OHMS
CAPACITOR VALUES ARE IN MICROFARADS
 3. THE VALUE OF R5, R9, R12, R16 TO BE DETERMINED BY ELECTRICAL TEST, SEE TABLES II, III
 4. CIRCUIT NO. 40440 THRU 40447 AND 40448 TO BE IN MODULE A27
 5. CIRCUIT NO. 40430 THRU 40437 AND 40438 TO BE IN MODULE A26

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION	
LIST OF MATERIALS					
		M T V INSTRUMENTATION LAB CONTINUATION SHEET		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAWN <i>Ch</i> DATE <i>6-2-68</i>		SCHEMATIC, ROPE SENSE AMPL MODULE B26-B	
TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ±		CHECKED <i>W. H. Thompson 7-2</i>			
DO NOT SCALE THIS DRAWING		APPROVAL <i>Ch</i>		SENSE AMPL MODULE B26-B	
MATERIAL <i>Aluminum</i>		RADA APPROVAL <i>Ch</i>		DATE SUBMIT FILE <i>7-2</i> SIZE <i>E</i>	
HEAT TREATMENT <i>None</i>		MT APPROVAL <i>Ch</i>		NADA DRAWING NO. 1006119	
NEXT ASSY USED ON		FINAL FRSH <i>None</i>		SCALE <i>None</i> WT <i>None</i> SHEET 1 OF 1	
APPLICATION					

NOTES: WHEN REPRODUCING DRAWINGS, SPECIFICATIONS, OR OTHER DATA, THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY INFORMATION TO DETERMINE THE ACCURACY OF THE DATA. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY INFORMATION TO DETERMINE THE ACCURACY OF THE DATA. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY INFORMATION TO DETERMINE THE ACCURACY OF THE DATA.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
1	CLASS B RELEASE PER TDRR 01853	7/1/62	



NOTES:
1.

REF DRAWING
MECHANICAL ASSEMBLY

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
C1	1006793-7	CAPACITOR	1000 UUF		
C2	1006793		NOMINAL		
C3	1006793-7		1000 UUF		
C4	1006755-31		10 UUF		
C5	1006793-7		1000 UUF		
C6	1006793-3		680 UUF		
C7	1006793		100 UUF		
C8	1006793		100 UUF		
C9	1006793		22 UUF		
C10	1006755-79		6.8 UUF	35V	
C11	1006755-79	CAPACITOR	6.8 UUF	35V	
CR1	1006704	ZENER			
CR2	1006704	ZENER			
CR3	1006700	DIODE	PS1 947		
CR5	1006751	DIODE			
CR6	1006751	DIODE			
L1	1006846	COIL	8-13UH		
L2	1010406-12	COIL	22 UH		
Y1	1006847	XTAL	HC-27U		
RT1		THERMISTOR	100K		
RT2		THERMISTOR	4K		

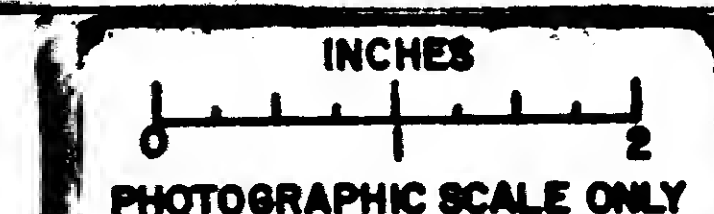
FOR INFORMATION ONLY
CLASS B RELEASE TDRR No 01853 DATE 7/1/62

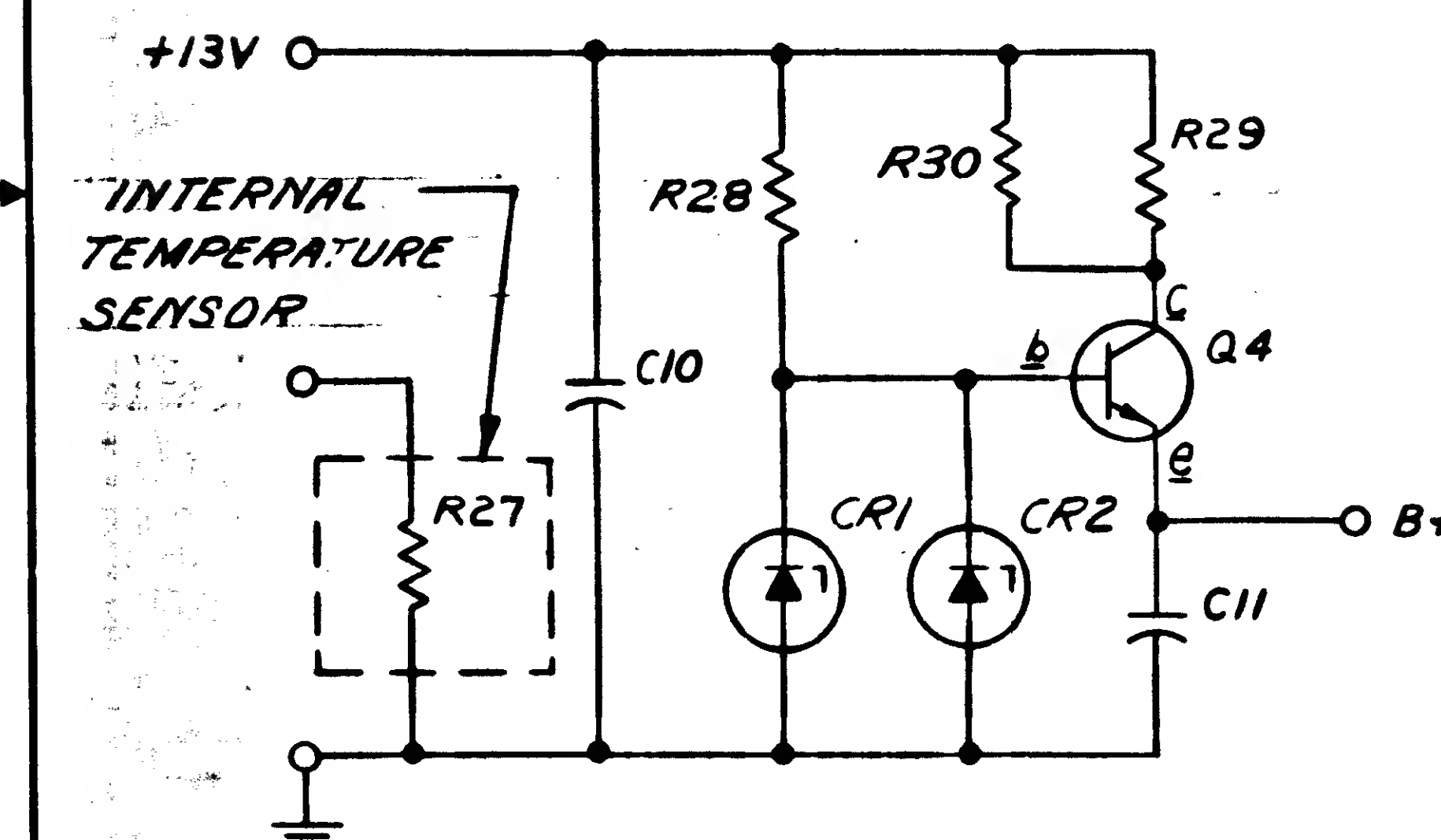
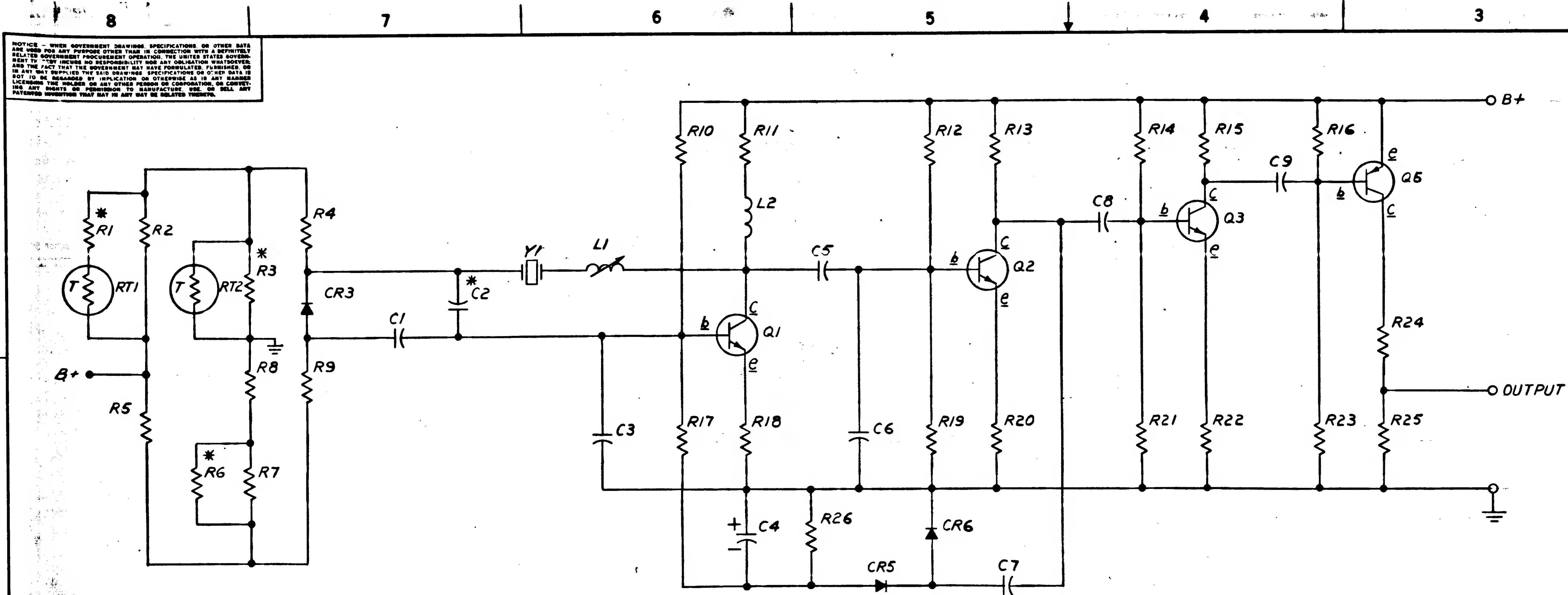
REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
Q1	1006752	TRANSISTOR			
Q2	1006752				
Q3	1006752				
Q4	1006752				
Q5	1006753	TRANSISTOR			
R1	1006750	RESISTOR	NOMINAL		
R2	1006750		TBS		
R3	1006750		NOMINAL		
R4	1006750		TBS		
R5	1006750		TBS		
R6	1006750		NOMINAL		
R7	1006750		TBS		
R8	1006750		TBS		
R9	1006750		TBS		
R10	1006750-82		120K		
R11	1006750-8		100Ω		
R12	1006750-74		56K		
R13	1006750-42		2.7K		
R14	1006750-74		56K		
R15	1006750-40		2.2K		
R16	1006750-72		47K		
R17	1006750		TBS		
R18	1006750-8		100Ω		
R19	1006750-60		15K		
R20	1006750-8		100Ω		
R21	1006750-60		15K		
R22	1006750-1		51Ω		
R23	1006750-80		100K		
R24	1006750-40		2.2K		
R25	1006750-25		510Ω		
R26	1006750-56		10K		
R27			TBS		
R28	1006750		TBS		
R29	1006750		TBS		
R30	1006750	RESISTOR	TBS		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FINO NO
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN W.J. MULLER DATE 4/27/62		SCHEMATIC DIAGRAM AGC CLOCK OSC	
CHECKED [Signature] DATE 7/1/62		CODE IDENT NO. D	
APPROVAL [Signature] DATE 6/28/62		NASA DRAWING NO. 1006140	
NASA APPROVAL [Signature] DATE 7/1/62		SCALE NONE	
MIT APPROVAL [Signature] DATE 7/1/62		SHEET 1 OF 1	

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-20257





NOTES:
1.

REF. DRAWING
MECHANICAL ASSEMBLY

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
C1	1006793-7	CAPACITOR	1000 UUF		
C2	1006793		NOMINAL		
C3	1006793-7		1000 UUF		
C4	1006755-31		10 UUF		
C5	1006793-7		1000 UUF		
C6	1006793-3		680 UUF		
C7	1006793		100 UUF		
C8	1006793		100 UUF		
C9	1006793		22 UUF		
C10	1006755-79		6.8 UUF	35V	
C11	1006755-79	CAPACITOR	6.8 UUF	35V	
CR1	1006704	ZENER			
CR2	1006704	ZENER			
CR3	1006700	DIODE	PSI 947		
CR5	1006751	DIODE			
CR6	1006751	DIODE			
L1	1006846	COIL	8-13UH		
L2	1010406-12	COIL	22 UH		
Y1	1006847	XTAL	HC-27U		
RT1		THERMISTOR	100K		
RT2		THERMISTOR	4K		

OBSOLETE

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
1	CLASS B RELEASE PER TDRR 01953	12/1/63	WJ
A	REVISED PER TDRR 02P55	12/1/63	WJ

REV A REPLACED BY REV B PER TDRR

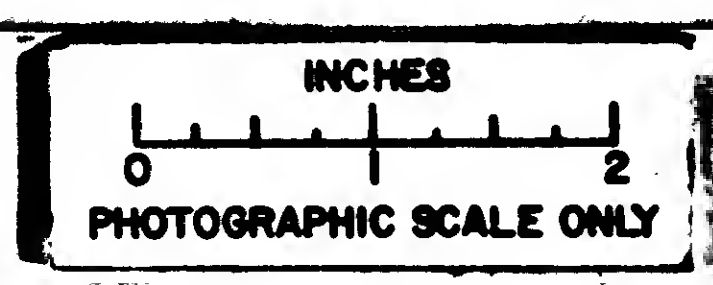
FOR INFORMATION ONLY
CLASS B RELEASE TDRR No 01953 DATE 7/4/63

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
Q1	1006752	TRANSISTOR			
Q2	1006752				
Q3	1006752				
Q4	1006752				
Q5	1006753	TRANSISTOR			
R1	1006750	RESISTOR	NOMINAL		
R2	1006750-		TBS		
R3	1006750		NOMINAL		
R4	1006750-		TBS		
R5	1006750-		TBS		
R6	1006750		NOMINAL		
R7	1006750-		TBS		
R8	1006750-		TBS		
R9	1006750-		TBS		
R10	1006750-82		120K		
R11	1006750-8		100Ω		
R12	1006750-74		56K		
R13	1006750-42		2.7K		
R14	1006750-74		56K		
R15	1006750-40		2.2K		
R16	1006750-72		47K		
R17	1006750-		TBS		
R18	1006750-8		100Ω		
R19	1006750-60		15K		
R20	1006750-8		100Ω		
R21	1006750-60		15K		
R22	1006750-1		51Ω		
R23	1006750-80		100K		
R24	1006750-40		2.2K		
R25	1006750-25		510Ω		
R26	1006750-56		10K		
R27			TBS		
R28	1006750-		TBS		
R29	1006750-		TBS		
R30	1006750	RESISTOR	TBS		

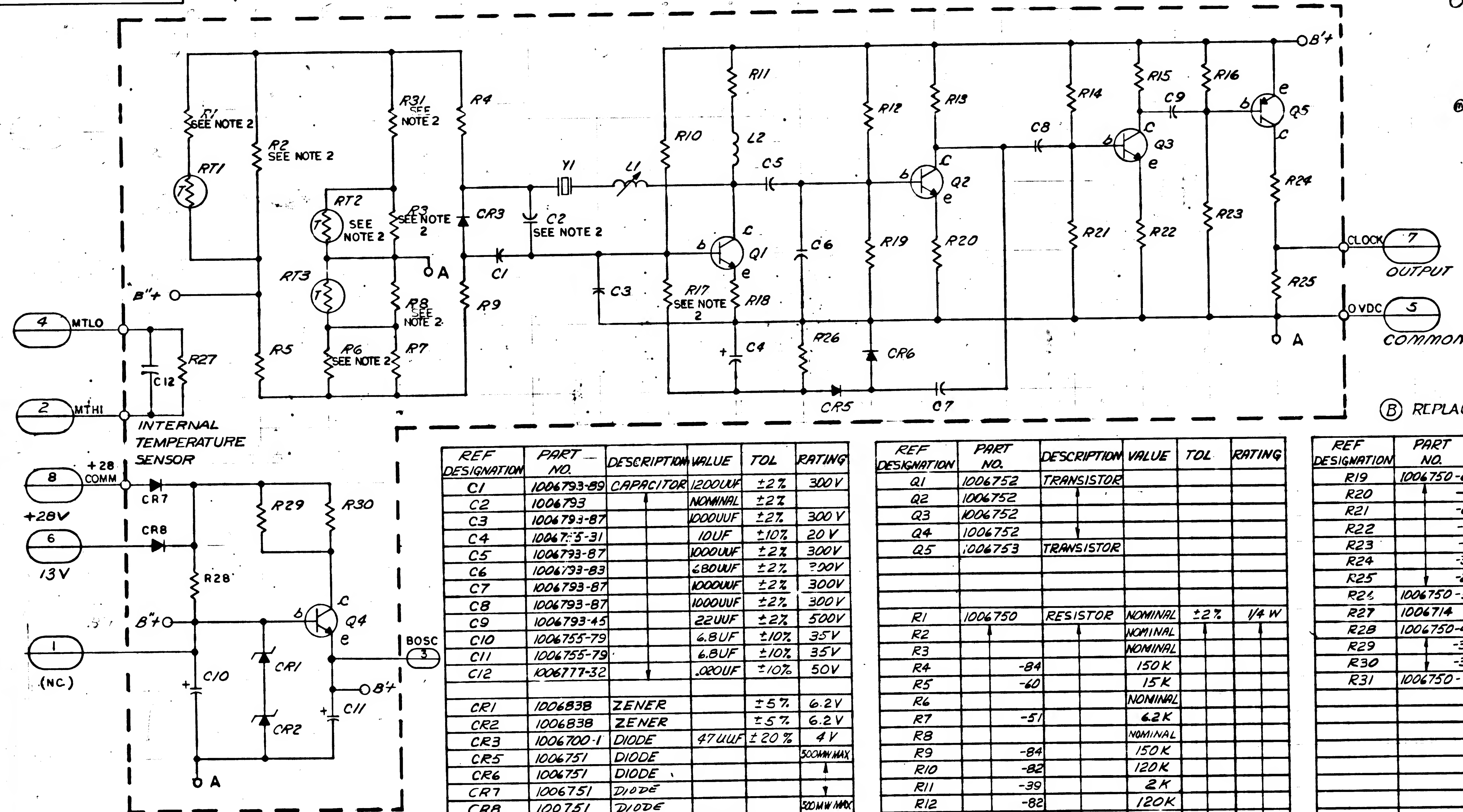
QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIN NO.
LIST OF MATERIALS						
INSTRUMENTATION LAB DRAWN WJ MIL 63 DATE 12/1/63 CHECKED [Signature] APPROVAL [Signature] 12/1/63 APPROVAL [Signature] 12/1/63				MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC DIAGRAM AGC CLOCK OSC MODULE B6 NASA DRAWING NO. 1006140		
HEAT TREATMENT		MATERIAL		SCALE NONE		WT
NEXT ASSY		USED ON		SHEET 1 OF 1		

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327



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- NOTES:
1. RESISTOR VALUES ARE EXPRESSED IN OHMS UNLESS OTHERWISE SPECIFIED
 2. THE VALUE OF THE FOLLOWING COMPONENTS TO BE DETERMINED AT UNIT TEST: C2, R1, R2, R3, R6, R7, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, RT1, RT2, RT3 SEE TABLE ON SHEET 2
 3. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

REF DESIGNATION	PART NO.	DESCRIPTION	VALUE	TOL	RATING
C1	1006793-89	CAPACITOR	1200UF	±2%	300V
C2	1006793		NOMINAL	±2%	
C3	1006793-87		1000UF	±2%	300V
C4	1006793-31		10UF	±10%	20V
C5	1006793-87		1000UF	±2%	300V
C6	1006793-83		680UF	±2%	300V
C7	1006793-87		1000UF	±2%	300V
C8	1006793-87		1000UF	±2%	300V
C9	1006793-45		22UF	±2%	500V
C10	1006755-79		6.8UF	±10%	35V
C11	1006755-79		6.8UF	±10%	35V
C12	1006777-32		.020UF	±10%	50V
CR1	1006838	ZENER		±5%	6.2V
CR2	1006838	ZENER		±5%	6.2V
CR3	1006700-1	DIODE	47UF	±20%	4V
CR5	1006751	DIODE			500MW MAX
CR6	1006751	DIODE			
CR7	1006751	DIODE			
CR8	1006751	DIODE			500MW MAX
L1	1006846	COIL	8-13UH		
L2	1010406-12	COIL	22UH	±10%	
Y1	1006847	XTAL			
RT1	1006715-1	THERMISTOR			
RT2	1006712	THERMISTOR	NOMINAL		
RT3	1006291	THERMISTOR			

REF DESIGNATION	PART NO.	DESCRIPTION	VALUE	TOL	RATING
Q1	1006752	TRANSISTOR			
Q2	1006752				
Q3	1006752				
Q4	1006752				
Q5	1006753	TRANSISTOR			
R1	1006750	RESISTOR	NOMINAL	±2%	1/4 W
R2			NOMINAL		
R3			NOMINAL		
R4	-84		150K		
R5	-60		15K		
R6			NOMINAL		
R7	-51		62K		
R8			NOMINAL		
R9	-84		150K		
R10	-82		120K		
R11	-39		2K		
R12	-82		120K		
R13	-42		27K		
R14	-74		56K		
R15	-39		2K		
R16	-72		47K		
R17			NOMINAL		
R18	1006750-8	RESISTOR	100	±2%	1/4 W

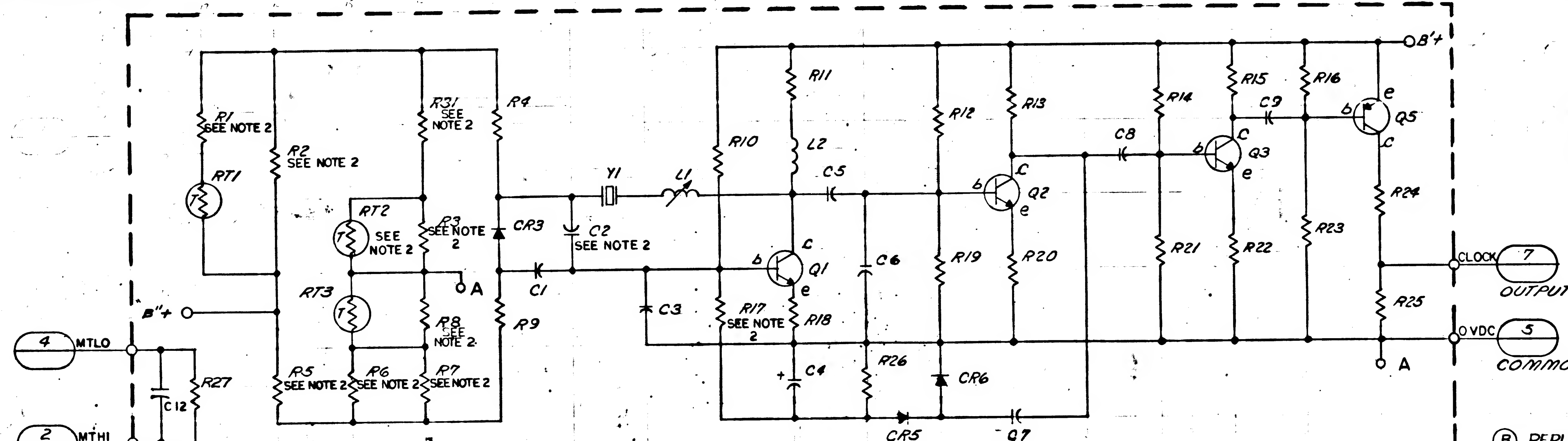
REF DESIGNATION	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R19	1006750-60	RESISTOR	15K	±2%	1/4 W
R20	-1		51		
R21	-60		15K		
R22	-1		51		
R23	-80		100K		
R24	-39		2K		
R25	-25		510		
R26	1006750-56		10K	±2%	1/4 W
R27	1006714				
R28	1006750-46		3.9K	±2%	1/4 W
R29	-39		2K		
R30	-39		2K		
R31	1006750-	RESISTOR	NOMINAL	±2%	1/4 W

REF DRAWINGS: 1003526, 1003818 AGC OSC ASSY

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN: J. J. J. DATE: 10/1/65		SCHEMATIC DIAGRAM AGC CLOCK OSC MODULE B6	
CHECKED: J. J. J. DATE: 10/1/65		NASA DRAWING NO. 1006140	
APPROVAL: J. J. J. DATE: 10/1/65		CODE IDENT NO. D	
NASA APPROVAL: J. J. J. DATE: 10/1/65		SCALE: NONE	
MIT APPROVAL: J. J. J. DATE: 10/1/65		SHEET 1 OF 3	

REV	DESCRIPTION	DATE	APPROVAL
B	REV AND REDRAWN / TDRR 07/23	7/23/65	PH
C	REVISED PER TDRR 03223	7/23/65	PH
D	REVISED PER TDRR 05789	7/23/65	PH
E	REVISED PER TDRR 05789	7/23/65	PH
F	REVISED PER TDRR 07062	7/23/65	PH
G	REVISED PER TDRR 08408	7/23/65	PH
H	REVISED PER TDRR 12630	7/23/65	PH
J	REVISED PER TDRR 16705	7/23/65	PH

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REV	DESCRIPTION	DATE	APPROVAL
B	REV AND REDRAWN / TDRR 05789	1/2/63	W
C	REVISED PER TDRR 05789	1/2/63	W
D	REVISED PER TDRR 05789	1/2/63	W
E	REVISED PER TDRR 05789	1/2/63	W
F	REVISED PER TDRR 05789	1/2/63	W
G	REVISED PER TDRR 05789	1/2/63	W
H	REVISED PER TDRR 05789	1/2/63	W
J	REVISED PER TDRR 05789	1/2/63	W
K	REVISED PER TDRR 05789	1/2/63	W

(B) REPLACES REV A WITH CHANGES

REF DESIGNATION	PART NO.	DESCRIPTION	VALUE	TOL	RATING
C1	1006793-89	CAPACITOR	1200UF	±2%	300V
C2	1006793		NOMINAL	±2%	
C3	1006793-87		1000UF	±2%	300V
C4	1006755-31		10UF	±10%	20V
C5	1006793-87		1000UF	±2%	300V
C6	1006793-83		680UF	±2%	300V
C7	1006793-87		1000UF	±2%	300V
C8	1006793-87		1000UF	±2%	300V
C9	1006793-45		22UF	±2%	500V
C10	1006755-79		6.8UF	±10%	35V
C11	1006755-79		6.8UF	±10%	35V
C12	1006771-32		.002UF	±10%	50V
CR1	1006838	ZENER		±5%	6.2V
CR2	1006838	ZENER		±5%	6.2V
CR3	1006700-1	DIODE	47UF	±20%	4V
CR5	1006751	DIODE			500MW MAX
CR6	1006751	DIODE			
CR7	1006751	DIODE			
CR8	1006751	DIODE			500MW MAX
L1	1006846	COIL	8-13UH		
L2	1010406-12	COIL	22UH	±10%	
Y1	1006847	XTAL			
RT1	1006715-1	THERMISTOR			
RT2	1006712	THERMISTOR	NOMINAL		
RT3	1006291	THERMISTOR			

REF DESIGNATION	PART NO.	DESCRIPTION	VALUE	TOL	RATING
Q1	1006752	TRANSISTOR			
Q2	1006752				
Q3	1006752				
Q4	1006752				
Q5	1006753	TRANSISTOR			
R1	1006750	RESISTOR	NOMINAL	±2%	1/4 W
R2			NOMINAL		
R3			NOMINAL		
R4	-84		150K		
R5			NOMINAL		
R6			NOMINAL		
R7			NOMINAL		
R8			NOMINAL		
R9	-84		150K		
R10	-82		120K		
R11	-39		2K		
R12	-82		120K		
R13	-42		2.7K		
R14	-74		56K		
R15	-39		2K		
R16	-72		47K		
R17			NOMINAL		
R18	1006750-8	RESISTOR	100	±2%	1/4 W

REF DESIGNATION	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R19	1006750-60	RESISTOR	15K	±2%	1/4 W
R20	-1		51		
R21	-60		15K		
R22	-1		51		
R23	-80		100K		
R24	-39		2K		
R25	-25		510		
R26	1006750-56		10K	±2%	1/4 W
R27	1006714				
R28	1006750-46		3.9K	±2%	1/4 W
R29	-39		2K		
R30	-39		2K		
R31	1006750-	RESISTOR	NOMINAL	±2%	1/4 W

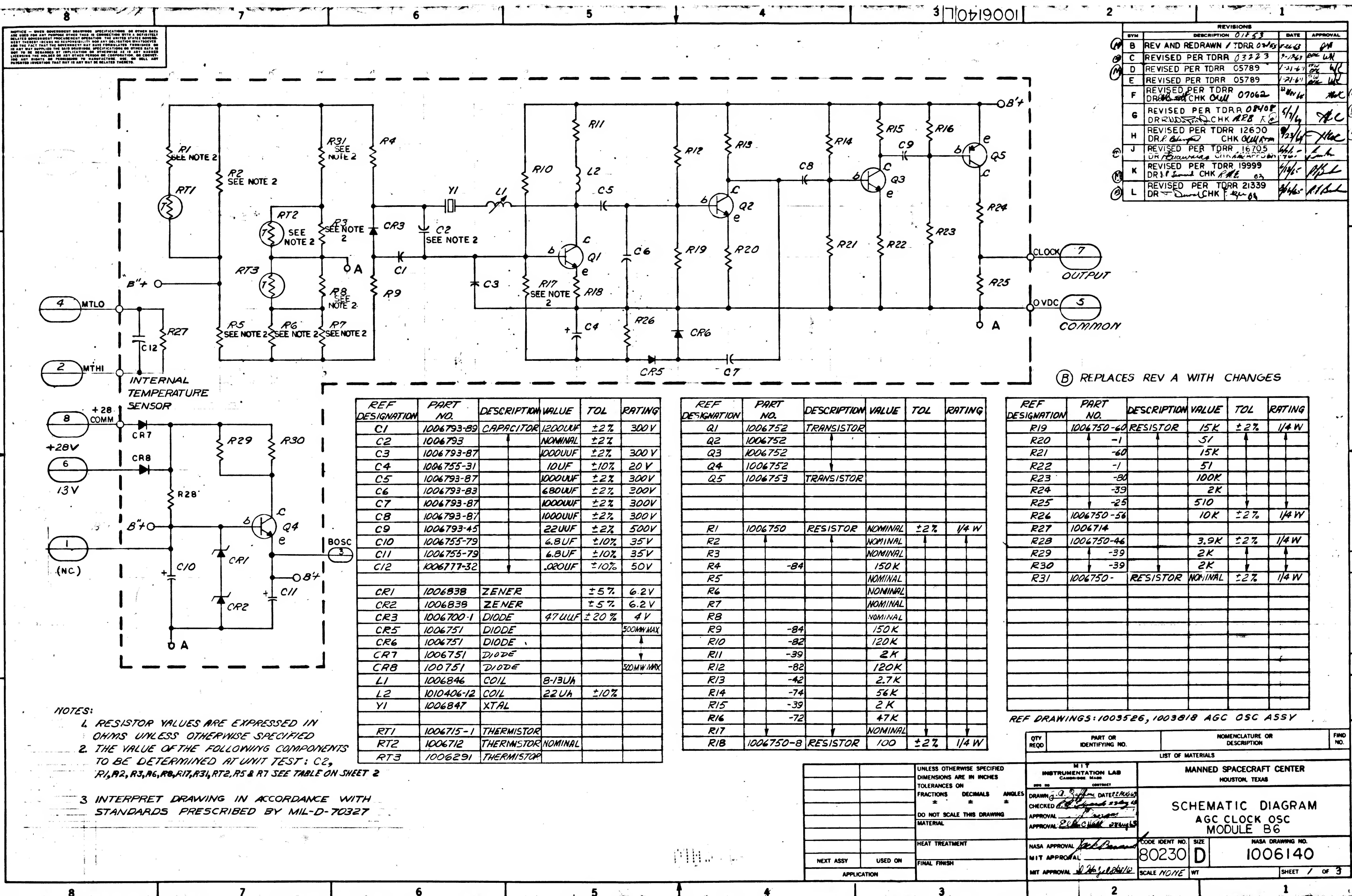
- NOTES:
1. RESISTOR VALUES ARE EXPRESSED IN OHMS UNLESS OTHERWISE SPECIFIED
 2. THE VALUE OF THE FOLLOWING COMPONENTS TO BE DETERMINED AT UNIT TEST: C2, R1, R2, R3, R6, R8, R17, R18, R2, R5 & R7 SEE TABLE ON SHEET 2
 3. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

REF DRAWINGS: 1003526, 1003818 AGC OSC ASSY

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
LIST OF MATERIALS							
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES				DO NOT SCALE THIS DRAWING MATERIAL			
HEAT TREATMENT				FINAL FINISH			
NEXT ASSY				USED ON			
APPLICATION							
INSTRUMENTATION LAB CAMBRIDGE, MASS				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DRAWN: 10/10/01				DATE: 10/10/01			
CHECKED: 10/10/01				APPROVAL: 10/10/01			
NASA APPROVAL: 10/10/01				MIT APPROVAL: 10/10/01			
CODE IDENT NO. 800230				SIZE D			
SCALE NONE				SHEET 1 OF 3			

SCHEMATIC DIAGRAM
AGC CLOCK OSC
MODULE B6

1006140



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P3			
DASH NO.	OHMS ±2%	DASH NO.	OHMS ±2%
1006750 - 25	510	1006750 - 43	3 K
-109	535	-127	3.15K
-26	560	-44	3.3K
-110	590	-128	3.45K
-27	620	-45	3.6K
-111	650	-129	3.75K
-28	680	-46	3.9K
-112	715	-130	4.1K
-29	750	-47	4.3K
-113	785	-131	4.5K
-30	820	-48	4.7K
-114	865	-132	4.9K
-31	910	-49	5.1K
-115	955	-133	5.35K
-32	1 K	-50	5.6K
-116	1.05K	-134	5.9K
-33	1.1K	-51	6.2K
-117	1.15K	-135	6.5K
-34	1.2K	-52	6.8K
-118	1.25K	-136	7.15K
-35	1.3K	-53	7.5K
-119	1.4K	-137	7.85K
-36	1.5K	-54	8.2K
-120	1.55K	-138	8.65K
-37	1.6K	-55	9.1K
-121	1.7K	-139	9.55K
-38	1.8K	-56	10K
-122	1.9K	-140	10.5K
-39	2.0K	-57	11K
-123	2.1K	-141	11.5K
-40	2.2K	-58	12K
-124	2.3K	-142	12.5K
-41	2.4K	-59	13K
-125	2.55K	-143	13.5K
-42	2.7K	-144	14K
1006750 - 126	2.85K	-145	14.5K

R6			
DASH NO.	OHMS ±2%	DASH NO.	OHMS ±2%
1006750 - 32	1 K	1006750 - 51	6.2 K
-116	1.05K	-135	6.5 K
-33	1.1 K	-52	6.8 K
-117	1.15 K	-136	7.15 K
-34	1.2 K	-53	7.5 K
-118	1.25 K	-137	7.85 K
-35	1.3 K	-54	8.2 K
-119	1.4 K	-138	8.65 K
-36	1.5 K	-55	9.1 K
-120	1.55 K	-139	9.55 K
-37	1.6 K	-56	10 K
-121	1.7 K	-140	10.5 K
-38	1.8 K	-57	11 K
-122	1.9 K	-141	11.5 K
-39	2.0 K	-58	12 K
-123	2.1 K	-142	12.5 K
-40	2.2 K	-59	13 K
-124	2.3 K	-143	13.5 K
-41	2.4 K	-60	14 K
-125	2.55 K	-144	14.5 K
-42	2.7 K	-61	15 K
-126	2.85 K	-145	15.5 K
-43	3 K	-62	16 K
-127	3.15 K	-146	16.5 K
-44	3.3 K	-63	17 K
-128	3.45 K	-147	17.5 K
-45	3.6 K	-64	18 K
-129	3.75 K	-148	18.5 K
-46	3.9 K	-65	19 K
-130	4.1 K	-149	19.5 K
-47	4.3 K	-66	20 K
-131	4.5 K	-150	20.5 K
-48	4.7 K	-67	21 K
-132	4.9 K	-151	21.5 K
-49	5.1 K	-152	22 K
-133	5.35 K	-153	22.5 K
-50	5.6 K	-154	23 K
1006750 - 134	5.9 K	-155	23.5 K

R8			
DASH NO.	OHMS ±2%	DASH NO.	OHMS ±2%
1006750 - 25	510	1006750 - 43	3 K
-109	535	-127	3.15 K
-26	560	-44	3.3 K
-110	590	-128	3.45 K
-27	620	-45	3.6 K
-111	650	-129	3.75 K
-28	680	-46	3.9 K
-112	715	-130	4.1 K
-29	750	-47	4.3 K
-113	785	-131	4.5 K
-30	820	-48	4.7 K
-114	865	-132	4.9 K
-31	910	-49	5.1 K
-115	955	-133	5.35 K
-32	1 K	-50	5.6 K
-116	1.05 K	-134	5.9 K
-33	1.1 K	-51	6.2 K
-117	1.15 K	-135	6.5 K
-34	1.2 K	-52	6.8 K
-118	1.25 K	-136	7.15 K
-35	1.3 K	-53	7.5 K
-119	1.4 K	-137	7.85 K
-36	1.5 K	-54	8.2 K
-120	1.55 K	-138	8.65 K
-37	1.6 K	-55	9.1 K
-121	1.7 K	-139	9.55 K
-38	1.8 K	-56	10 K
-122	1.9 K	-140	10.5 K
-39	2.0 K	-57	11 K
-123	2.1 K	-141	11.5 K
-40	2.2 K	-142	12 K
-124	2.3 K	-143	12.5 K
-41	2.4 K	-144	13 K
-125	2.55 K	-145	13.5 K
-42	2.7 K	-146	14 K
1006750 - 126	2.85 K	-147	14.5 K

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
(M) E	REDRAWN WITH CHANGES PER TDRR 05789	2/2/64	WLL
F	REVISED PER TDRR 07062	2/2/64	WLL
G	REVISED PER TDRR 08408	2/2/64	WLL
H	REVISED PER TDRR 12600	2/2/64	WLL
J	REVISED PER TDRR 16705	2/2/64	WLL

Ⓔ REPLACES REV D WITH CHANGES

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REV NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN BY: <i>[Signature]</i> DATE: 2/2/64		SCHEMATIC	
CHECKED BY: <i>[Signature]</i>		AGC CLOCK OSC	
APPROVAL: <i>[Signature]</i>		MODULE B6	
HEAT TREATMENT		NASA APPROVAL: <i>[Signature]</i>	CODE IDENT NO. SIZE
FINAL FINISH		MIT APPROVAL: <i>[Signature]</i>	1006140
APPLICATION		SCALE: NONE	SHEET 2 OF 3

8

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NOTICE: THESE DRAWINGS SHOWING SPECIFICATIONS OF OTHER DATA FOR THE USE OF THE DRAWING ENGINEER. THE DRAWING ENGINEER SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE DATA. THE DRAWING ENGINEER SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE DATA. THE DRAWING ENGINEER SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF THE DATA.

1006750 - 25 510 1006750 - 43 3 K 1006750 - 60 14 K
- 109 535 - 127 3.15K - 135 6.5 K
- 26 560 - 44 3.3K - 144 15.5K
- 110 590 - 128 3.45K - 61 16 K
- 27 620 - 45 3.6K - 145 17 K
- 111 650 - 129 3.75K - 62 18 K
- 28 680 - 46 3.9K - 146 19 K
- 112 715 - 130 4.1K - 63 20 K
- 29 750 - 47 4.3K - 147 21 K
- 113 785 - 131 4.5K - 64 22 K
- 30 820 - 48 4.7K - 148 23 K
- 114 865 - 132 4.9K - 65 24 K
- 31 910 - 49 5.1K - 149 25.5K
- 115 955 - 133 5.35K - 66 27 K
- 32 1 K - 50 5.6K - 150 28.5K
- 116 1.05K - 134 5.9K - 67 30 K
- 33 1.1K - 51 6.2K - 151 31.5K
- 117 1.15K - 135 6.5K - 68 33 K
- 34 1.2K - 52 6.8K - 152 34.5K
- 118 1.25K - 136 7.15K - 69 35 K
- 35 1.3K - 53 7.5K - 153 37.5K
- 119 1.4K - 137 7.85K - 70 39 K
- 36 1.5K - 54 8.2K - 154 41 K
- 120 1.55K - 138 8.65K - 71 43 K
- 37 1.6K - 55 9.1K - 155 45 K
- 121 1.7K - 139 9.55K - 72 47 K
- 38 1.8K - 56 10K - 156 49 K
- 122 1.9K - 140 10.5K - 73 51 K
- 39 2.0K - 57 11 K - 157 53.5K
- 123 2.1K - 141 11.5K - 74 56 K
- 40 2.2K - 58 12 K - 158 59 K
- 124 2.3K - 142 12.5K 1006750 - 75 62K
- 41 2.4K 1006750 - 59 13K
- 125 2.55K
- 42 2.7K
1006750 - 126 2.85K

R6 & R5

DASH NO. OHMS ± 2% DASH NO. OHMS ± 2%
1006750 - 32 1 K 1006750 - 51 6.2 K
- 116 1.05K - 135 6.5 K
- 33 1.1K - 52 6.8 K
- 117 1.15K - 136 7.15 K
- 34 1.2K - 53 7.5 K
- 118 1.25K - 137 7.85 K
- 35 1.3K - 54 8.2 K
- 119 1.4K - 138 8.65 K
- 36 1.5K - 55 9.1 K
- 120 1.55K - 139 9.55K
- 37 1.6K - 56 10 K
- 121 1.7K - 140 10.5K
- 38 1.8K - 57 11 K
- 122 1.9K - 141 11.5K
- 39 2.0K - 58 12 K
- 123 2.1K - 142 12.5K
- 40 2.2K - 59 13 K
- 124 2.3K - 143 14 K
- 41 2.4K - 60 15 K
- 125 2.55K - 144 15.5K
- 42 2.7K - 61 16 K
- 126 2.85K - 145 17 K
- 43 3 K - 62 18 K
- 127 3.15K - 146 19 K
- 44 3.3K - 63 20 K
- 128 3.45K - 147 21 K
- 45 3.6K - 64 22 K
- 129 3.75K - 148 23 K
- 46 3.9K - 65 24 K
- 130 4.1K - 149 25.5K
- 47 4.3K - 66 27 K
- 131 4.5K - 150 28.5K
- 48 4.7K - 67 30 K
- 132 4.9K - 151 31.5K
- 49 5.1K 1006750 - 68 33K
- 133 5.35K
- 50 5.6K
1006750 - 134 5.9K

R8

DASH NO. OHMS ± 2% DASH NO. OHMS ± 2%
1006750 - 25 510 1006750 - 43 3 K
- 109 535 - 127 3.15 K
- 26 560 - 44 3.3 K
- 110 590 - 128 3.45 K
- 27 620 - 45 3.6 K
- 111 650 - 129 3.75 K
- 28 680 - 46 3.9 K
- 112 715 - 130 4.1 K
- 29 750 - 47 4.3 K
- 113 785 - 131 4.5 K
- 30 820 - 48 4.7 K
- 114 865 - 132 4.9 K
- 31 910 - 49 5.1 K
- 115 955 - 133 5.35 K
- 32 1 K - 50 5.6 K
- 116 1.05 K - 134 5.9 K
- 33 1.1 K - 51 6.2 K
- 117 1.15 K - 135 6.5 K
- 34 1.2 K - 52 6.8 K
- 118 1.25 K - 136 7.15 K
- 35 1.3 K - 53 7.5 K
- 119 1.4 K - 137 7.85 K
- 36 1.5 K - 54 8.2 K
- 120 1.55 K - 138 8.65 K
- 37 1.6 K - 55 9.1 K
- 121 1.7 K - 139 9.55 K
- 38 1.8 K - 56 10 K
- 122 1.9 K - 140 10.5 K
- 39 2.0 K - 57 11 K
- 123 2.1 K - 141 11.5 K
- 40 2.2 K 1006750 - 58 12 K
- 124 2.3 K 1006750 - 8 0
- 41 2.4 K
- 125 2.55 K
- 42 2.7 K
1006750 - 126 2.85 K

REVISIONS

SYM

DESCRIPTION

DATE

APPROVAL

(M)

E

REDRAWN WITH CHANGES PER TDRR 05789

2/1/60

[Signature]

(F)

F

REVISED PER TDRR 07062

2/1/60

[Signature]

(G)

G

REVISED PER TDRR 08408

5/1/60

[Signature]

(H)

H

REVISED PER TDRR 12600

11/23/60

[Signature]

(J)

J

REVISED PER TDRR 16705

1/1/61

[Signature]

(K)

K

REVISED PER TDRR 19999

1/1/61

[Signature]

REPLACES REV D WITH CHANGES

QTY REQD

PART OR IDENTIFYING NO.

NOMENCLATURE OR DESCRIPTION

FIND NO.

LIST OF MATERIALS

MTI INSTRUMENTATION LAB

DATE 1/1/61

CHECKED [Signature]

APPROVAL [Signature]

MANAGED SPACECRAFT CENTER

HOUSTON, TEXAS

SCHEMATIC

AGC CLOCK OSC

MODULE B6

CODE IDENT NO.

80230

SIZE

D

NASA DRAWING NO.

1006140

SCALE NONE

WT

SHEET 2 OF 3

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS ON DECIMALS ANGLES

DO NOT SCALE THIS DRAWING

MATERIAL

HEAT TREATMENT

FINAL FINISH

NEXT ASSY USED ON APPLICATION

NOTICE - WHEN GOVERNMENT SPECIFICATIONS OR STANDARDS ARE USED FOR ANY PART OF THIS DRAWING, THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE LATEST EDITION OF SUCH SPECIFICATIONS OR STANDARDS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE LATEST EDITION OF SUCH SPECIFICATIONS OR STANDARDS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE LATEST EDITION OF SUCH SPECIFICATIONS OR STANDARDS.

R1, R2, H3, H5, H6, R7, R8, R31			
DASH NO.	OHMS ±2%	DASH NO.	OHMS ±2%
1006750 - 25	510	1006750 - 43	3 K
-109	535	-127	3.5K
-26	560	-44	3.3K
-110	590	-128	3.45K
-27	620	-45	3.6 K
-111	650	-129	3.75K
-28	680	-46	3.9K
-112	715	-130	4.1K
-29	750	-47	4.3K
-30	785	-131	4.5K
-33	820	-48	4.7K
-114	865	-132	4.9K
-31	910	-49	5.1K
-115	955	-133	5.35K
-32	1 K	-50	5.6K
-116	1.05K	-134	5.9K
-33	1.1K	-51	6.2K
-117	1.15K	-135	6.5K
-34	1.2K	-52	6.8K
-118	1.25K	-136	7.15K
-35	1.3K	-53	7.5K
-119	1.4K	-137	7.85K
-36	1.5K	-54	8.2K
-120	1.55K	-138	8.65K
-37	1.6K	-55	9.1K
-121	1.7K	-139	9.55K
-38	1.8K	-56	10K
-122	1.9K	-140	10.5K
-39	2.0K	-57	11 K
-123	2.1K	-141	11.5K
-40	2.2K	-58	12 K
-124	2.3K	-142	12.5K
-41	2.4K	1006750 - 59	13K
-125	2.55K		
-42	2.7K		
1006750 - 126	2.85K		

R1, R2, H3, H5, H6, R7, R8, R31			
DASH NO.	OHMS ±2%	DASH NO.	OHMS ±2%
1006750 - 32	1 K	1006750 - 51	8.2 K
-116	1.05K	-135	6.5 K
-33	1.1K	-52	6.8 K
-117	1.15K	-136	7.15 K
-34	1.2K	-53	7.5 K
-118	1.25K	-137	7.85K
-35	1.3K	-54	8.2K
-119	1.4K	-138	8.65K
-36	1.5K	-55	9.1K
-120	1.55K	-139	9.55K
-37	1.6K	-56	10 K
-121	1.7K	-140	10.5K
-38	1.8K	-57	11 K
-122	1.9K	-141	11.5K
-39	2.0K	-58	12 K
-123	2.1K	-142	12.5K
-40	2.2K	-59	13K
-124	2.3K	-143	14 K
-41	2.4K	-60	15 K
-125	2.55K	-144	15.5K
-42	2.7K	-61	16 K
-126	2.85K	-145	17 K
-43	3 K	-62	18 K
-127	3.15K	-146	19 K
-44	3.3K	-63	20 K
-128	3.45K	-147	21K
-45	3.6K	-64	22K
-129	3.75K	-148	23K
-46	3.9K	-65	24K
-130	4.1K	-149	25.5K
-47	4.3K	-66	27K
-131	4.5K	-150	28.5K
-48	4.7K	-67	30K
-132	4.9K	-151	31.5K
-49	5.1K	-68	33K
-133	5.35K		
-50	5.6K		
1006750 - 134	5.9K		

R1, R2, H3, H5, H6, R7, R8, R31			
DASH NO.	OHMS ±2%	DASH NO.	OHMS ±2%
1006750 - 25	510	1006750 - 43	3 K
-109	535	-127	3.5K
-26	560	-44	3.3K
-110	590	-128	3.45K
-27	620	-45	3.6 K
-111	650	-129	3.75K
-28	680	-46	3.9K
-112	715	-130	4.1K
-29	750	-47	4.3K
-113	785	-131	4.5K
-30	820	-48	4.7K
-114	865	-132	4.9K
-31	910	-49	5.1K
-115	955	-133	5.35K
-32	1 K	-50	5.6K
-116	1.05K	-134	5.9K
-33	1.1K	-51	6.2K
-117	1.15K	-135	6.5K
-34	1.2K	-52	6.8K
-118	1.25K	-136	7.15K
-35	1.3K	-53	7.5K
-119	1.4K	-137	7.85K
-36	1.5K	-54	8.2K
-120	1.55K	-138	8.65K
-37	1.6K	-55	9.1K
-121	1.7K	-139	9.55K
-38	1.8K	-56	10 K
-122	1.9K	-140	10.5K
-39	2.0K	-57	11 K
-123	2.1K	-141	11.5K
-40	2.2K	1006750 - 58	12K
-124	2.3K	1006750 - 8	0
-41	2.4K		
-125	2.55K		
-42	2.7K		
1006750 - 126	2.85K		

REVISIONS			
SYN	DESCRIPTION	DATE	APPROVAL
E	REDRAWN WITH CHANGES PER TDRR 05789	2/1/65	W.C. Hall
F	REVISED PER TDRR 07062	2/1/65	W.C. Hall
G	REVISED PER TDRR 08408	5/1/65	W.C. Hall
H	REVISED PER TDRR 12600	11/22/65	W.C. Hall
J	REVISED PER TDRR 16705	1/1/66	W.C. Hall
K	REVISED PER TDRR 19449	1/1/66	W.C. Hall
L	REVISED PER TDRR 21339	1/1/66	W.C. Hall

Ⓔ REPLACES REV D WITH CHANGES

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG. NO.
LIST OF MATERIALS			
INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN BY: J. W. Hall DATE: 2/1/65		SCHEMATIC AGC CLOCK OSC MODULE B6	
CHECKED BY: J. W. Hall		CODE IDENT NO. 80230 D	
APPROVAL BY: J. W. Hall		NASA DRAWING NO. 1006140	
NEXT ASSY		SCALE NONE	
USED ON		SHEET 2 OF 3	
APPLICATION			

NOTICE - UNDER GOVERNMENT CONTRACTS, SPECIFICATIONS, OR OTHER DATA
 AND FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFENSE
 RELATIONSHIP, NO REPRODUCTION OR TRANSMISSION OF THIS DOCUMENT
 WITHOUT AUTHORIZED PROCUREMENT OPERATION OF THE UNITED STATES GOVERN-
 MENT THEREBY INCUR NO RESPONSIBILITY FOR ANY INFORMATION WHATSOEVER,
 AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMERLY FURNISHED OR
 IN ANY WAY SUPPLIED THE SAID MATERIALS OR SPECIFICATIONS OR OTHER DATA IS
 NOT TO BE REGARDED BY REPRODUCTION OR TRANSMISSION AS IN ANY MANNER
 ENDORSEMENT OF THE PRODUCT OR ANY OTHER PERSON OR CORPORATION,
 OR AS A WARRANTY OF THE QUALITY OF THE PRODUCT, OR AS A GUARANTEE OF
 ANY RIGHTS OR PERMISSIONS TO MANUFACTURE, USE, OR SELL ANY
 PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

R 31	
DASH NO.	
1006750	- 56
	- 140
	- 57
	- 141
	- 58
	- 142
	- 59
	- 143
	- 60
	- 144
	- 61
	- 145
	- 62
	- 146
	- 63
	- 147
	- 64
	- 148
	- 65
	- 149
	- 66
	- 150
	- 67
	- 151
	- 68
	- 152
	- 69
	- 153
	- 70
	- 154
1006750	- 71

R I		
DASH NO.		OHMS ± 2%
1006750 - 52		6.8 K
	- 136	7.15 K
	- 53	7.5 K
	- 137	7.65 K
	- 54	8.2 K
	- 138	8.65 K
	- 55	9.1 K
	- 139	9.55 K
	- 56	10 K
	- 140	10.5 K
	- 57	11 K
	- 141	11.5 K
	- 58	12 K
	- 142	12.5 K
	- 59	13 K
	- 143	14 K
	- 60	15 K
	- 144	15.5 K
	- 61	16 K
	- 145	17 K
	- 62	18 K
	- 146	19 K
	- 63	20 K
	- 147	21 K
1006750 - 64		22 K

RT 2	
DASH NO.	OHMS±%
1006712 - 1	500
1006712 - 2	1000
1006712 - 3	5000

R 17	
DASH NO	OHMS ± 2%
1006750 - 55	9.1 K
↑ - 56	10 K
↑ - 57	11 K
↑ - 58	12 K
↓ - 59	13 K
1006750 - 60	14 K

R 2			
DASH NO.	OHMS:27	DASH NO.	OHMS:27
1006750 - 56	10 K	1006750 - 157	53.5 K
↑ - 140	10.5 K	↑ - 74	56 K
- 57	11 K	- 158	59 K
- 141	11.5 K	- 75	62 K
- 58	12 K	- 159	65 K
- 142	12.5 K	- 76	68 K
- 59	13 K	- 160	71.5 K
- 143	14 K	- 77	75 K
- 60	15 K	- 161	78.5 K
- 144	15.5 K	- 78	82 K
- 61	16 K	- 162	86.5 K
- 145	17 K	- 79	91 K
- 62	18 K	- 163	95.5 K
- 146	19 K	- 80	100 K
- 63	20 K	- 164	105 K
- 147	21 K	- 81	110 K
- 64	22 K	- 165	115 K
- 148	23 K	- 82	120 K
- 65	24 K	- 166	125 K
- 149	25.5 K	- 83	130 K
- 66	27 K	↑ - 167	140 K
- 150	28.5 K	1006750 - 84	150 K
- 67	30 K		
- 151	31.5 K		
- 68	33 K		
- 152	34.5 K		
- 69	36 K		
- 153	37.5 K		
- 70	39 K		
- 154	41 K		
- 71	43 K		
- 155	45 K		
- 72	47 K		
↑ - 156	49 K		
1006750 - 73	51 K		

C 2	
DASH NO.	VALUE UUF
1006793 - 37	10
- 38	11
- 39	12
- 40	13
- 41	15
- 42	16
- 43	18
- 44	20
- 45	22
- 46	24
- 47	27
- 48	30
- 49	33
- 50	36
- 51	39
- 52	43
- 53	47
- 54	51
- 55	56
- 56	62
- 57	68
- 58	75
- 59	82
- 60	91
1006793 - 61	100

Ⓔ THIS SHEET ADDED

REVISIONS			
SYN	DESCRIPTION	DATE	APPROVAL
E	THIS SHEET ADDED PER TORR 05789	5/1/61	W
F	REVISED PER TORR DRAWING CHK 07062	5/1/61	W
G	REVISED PER TORR 01040 DRAWING CHK 07062	5/1/61	W
H	REVISED PER TORR 12600 DRAWING CHK 07062	5/1/61	W
J	REVISED PER TORR 16705 DRAWING CHK 07062	5/1/61	W

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES * * *		QTY REQ PART OR IDENTIFYING NO.		NOMECLATURE OR DESCRIPTION	
		DO NOT SCALE THIS DRAWING MATERIAL		LIST OF MATERIALS M T T INSTRUMENTATION LAB CAMBRIDGE, MASS DATE 12/16/64 CHECKED [Signature] APPROVAL [Signature] APPROVAL [Signature]		MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC AGC CLOCK OSC MODULE B6	
		HEAT TREATMENT		NASA APPROVAL [Signature] DATE 12/16/64 M T T APPROVAL [Signature]		CODE IDENT NO. 5 SIZE [Blank] NASA DRAWING NO. 1006140	
NEXT ASSY USED ON		FINAL FINISH		SCALE 1/8" = 1"		SHEET 3 OF 3	

NOTES: - THIS DRAWING SHOWS SPECIFICATIONS ON THE BASIS OF THE DATA FOR THE PROPOSED DESIGN. IT IS THE RESPONSIBILITY OF THE DESIGNER TO VERIFY THAT THE DATA IS CORRECT AND THAT THE DESIGN IS FEASIBLE. THE DRAWING IS NOT TO BE USED FOR CONSTRUCTION OR FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN APPROVAL OF THE DESIGNER.

DASH NO.	OHMS ± 2%
1006750 - 56	10 K
- 140	10.5 K
- 57	11 K
- 141	11.5 K
- 58	12 K
- 142	12.5 K
- 59	13 K
- 143	14 K
- 60	15 K
- 144	15.5 K
- 61	16 K
- 145	17 K
- 62	18 K
- 146	19 K
- 63	20 K
- 147	21 K
- 64	22 K
- 148	23 K
- 65	24 K
- 149	25.5 K
- 66	27 K
- 150	28.5 K
- 67	30 K
- 151	31.5 K
- 68	33 K
- 152	34.5 K
- 69	36 K
- 153	37.5 K
- 70	39 K
- 154	41 K
1006750 - 71	43 K

DASH NO.	OHMS ± 2%
1006750 - 52	6.8 K
- 136	7.15 K
- 53	7.5 K
- 137	7.85 K
- 54	8.2 K
- 138	8.65 K
- 55	9.1 K
- 139	9.55 K
- 56	10 K
- 140	10.5 K
- 57	11 K
- 141	11.5 K
- 58	12 K
- 142	12.5 K
- 59	13 K
- 143	14 K
- 60	15 K
- 144	15.5 K
- 61	16 K
- 145	17 K
- 62	18 K
- 146	19 K
- 63	20 K
- 147	21 K
- 64	22 K

DASH NO.	OHMS ± 2%	DASH NO.	OHMS ± 2%
1006750 - 56	10 K	1006750 - 157	53.5 K
- 140	10.5 K	- 74	56 K
- 57	11 K	- 158	59 K
- 141	11.5 K	- 75	62 K
- 58	12 K	- 159	65 K
- 142	12.5 K	- 76	68 K
- 59	13 K	- 160	71.5 K
- 143	14 K	- 77	75 K
- 60	15 K	- 161	78.5 K
- 144	15.5 K	- 78	82 K
- 61	16 K	- 162	86.5 K
- 145	17 K	- 79	91 K
- 62	18 K	- 163	95.5 K
- 146	19 K	- 80	100 K
- 63	20 K	- 164	105 K
- 147	21 K	- 81	110 K
- 64	22 K	- 165	115 K
- 148	23 K	- 82	120 K
- 65	24 K	- 166	125 K
- 149	25.5 K	- 83	130 K
- 66	27 K	- 167	140 K
- 150	28.5 K	1006750 - 84	150 K
- 67	30 K		
- 151	31.5 K		
- 68	33 K		
- 152	34.5 K		
- 69	36 K		
- 153	37.5 K		
- 70	39 K		
- 154	41 K		
- 71	43 K		
- 155	45 K		
- 72	47 K		
- 156	49 K		
1006750 - 73	51 K		

DASH NO.	OHMS ± 2%
1006712 - 1	500
1006712 - 2	1000
1006712 - 3	5000

DASH NO.	OHMS ± 2%
1006750 - 55	9.1 K
- 56	10 K
- 57	11 K
- 58	12 K
- 59	13 K
1006750 - 60	14 K

DASH NO.	VALUE
1006793 - 37	10
- 38	11
- 39	12
- 40	13
- 41	15
- 42	16
- 43	18
- 44	20
- 45	22
- 46	24
- 47	27
- 48	30
- 49	33
- 50	36
- 51	39
- 52	43
- 53	47
- 54	51
- 55	56
- 56	62
- 57	68
- 58	75
- 59	82
- 60	91
1006793 - 61	100

REV	DESCRIPTION	DATE	APPROVAL
E	THIS SHEET ADDED PER TDRR 05789	2/2/64	W. H. H.
F	REVISED PER TDRR 07062	2/2/64	W. H. H.
G	REVISED PER TDRR 08408	5/1/64	W. H. H.
H	REVISED PER TDRR 12600	9/24/64	W. H. H.
J	REVISED PER TDRR 16705	4/6/65	W. H. H.
K	REVISED PER TDRR 18000	7/26/65	W. H. H.

THIS SHEET ADDED

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG NO.
LIST OF MATERIALS			
INSTRUMENTATION LAB CONTRACT NO. DRAWN BY CHECKED BY APPROVED BY DATE NASA APPROVAL MTT APPROVAL		MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC AGC CLOCK OSC MODULE B6 CODE IDENT NO. 80230 SIZE D NASA DRAWING NO. 1006140 SCALE NONE SHEET 3 OF 3	

MASTER

NOTICE - THIS DOCUMENT CONTAINS SPECIFICATIONS OF OTHERS AND IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A SPECIFICALLY ISSUED CONTRACT. THE DRAWING IS NOT TO BE USED FOR ANY OTHER PURPOSE. THE DRAWING IS NOT TO BE USED FOR ANY OTHER PURPOSE. THE DRAWING IS NOT TO BE USED FOR ANY OTHER PURPOSE.

DASH NO.	OHMS ± 2%
1006750 - 56	10 K
- 140	10.5 K
- 57	11 K
- 141	11.5 K
- 58	12 K
- 142	12.5 K
- 59	13 K
- 143	14 K
- 60	15 K
- 144	15.5 K
- 61	16 K
- 145	17 K
- 62	18 K
- 146	19 K
- 63	20 K
- 147	21 K
- 64	22 K
- 148	23 K
- 65	24 K
- 149	25.5 K
- 66	27 K
- 150	28.5 K
- 67	30 K
- 151	31.5 K
- 68	33 K
- 152	34.5 K
- 69	36 K
- 153	37.5 K
- 70	39 K
- 154	41 K
1006750 - 71	43 K

DASH NO.	OHMS ± 2%
1006750 - 52	6.8 K
- 136	7.5 K
- 53	7.5 K
- 137	7.85 K
- 54	8.2 K
- 138	8.65 K
- 55	9.1 K
- 139	9.55 K
- 56	10 K
- 140	10.5 K
- 57	11 K
- 141	11.5 K
- 58	12 K
- 142	12.5 K
- 59	13 K
- 143	14 K
- 60	15 K
- 144	15.5 K
- 61	16 K
- 145	17 K
- 62	18 K
- 146	19 K
- 63	20 K
- 147	21 K
- 64	22 K
- 148	23 K
- 65	24 K
- 149	25.5 K
- 66	27 K
- 150	28.5 K
- 67	30 K
- 151	31.5 K
- 68	33 K
- 152	34.5 K
- 69	36 K
- 153	37.5 K
- 70	39 K
- 154	41 K
1006750 - 71	43 K

DASH NO.	OHMS ± 2%	DASH NO.	OHMS ± 2%
1006750 - 56	10 K	1006750 - 157	53.5 K
- 140	10.5 K	- 74	56 K
- 57	11 K	- 158	59 K
- 141	11.5 K	- 75	62 K
- 58	12 K	- 159	65 K
- 142	12.5 K	- 76	68 K
- 59	13 K	- 160	71.5 K
- 143	14 K	- 77	75 K
- 60	15 K	- 161	78.5 K
- 144	15.5 K	- 78	82 K
- 61	16 K	- 162	86.5 K
- 145	17 K	- 79	90 K
- 62	18 K	- 163	95.5 K
- 146	19 K	- 80	100 K
- 63	20 K	- 164	105 K
- 147	21 K	- 81	110 K
- 64	22 K	- 165	115 K
- 148	23 K	- 82	120 K
- 65	24 K	- 166	125 K
- 149	25.5 K	- 83	130 K
- 66	27 K	- 167	140 K
- 150	28.5 K	1006750 - 84	150 K
- 67	30 K		
- 151	31.5 K		
- 68	33 K		
- 152	34.5 K		
- 69	36 K		
- 153	37.5 K		
- 70	39 K		
- 154	41 K		
- 71	43 K		
- 155	45 K		
- 72	47 K		
- 156	49 K		
1006750 - 73	51 K		

DASH NO.	OHMS ± 2%
1006712 - 1	500
1006712 - 2	1000
1006712 - 3	5000

DASH NO.	OHMS ± 2%
1006750 - 55	9.1 K
- 56	10 K
- 57	11 K
- 58	12 K
- 59	13 K
1006750 - 60	15 K

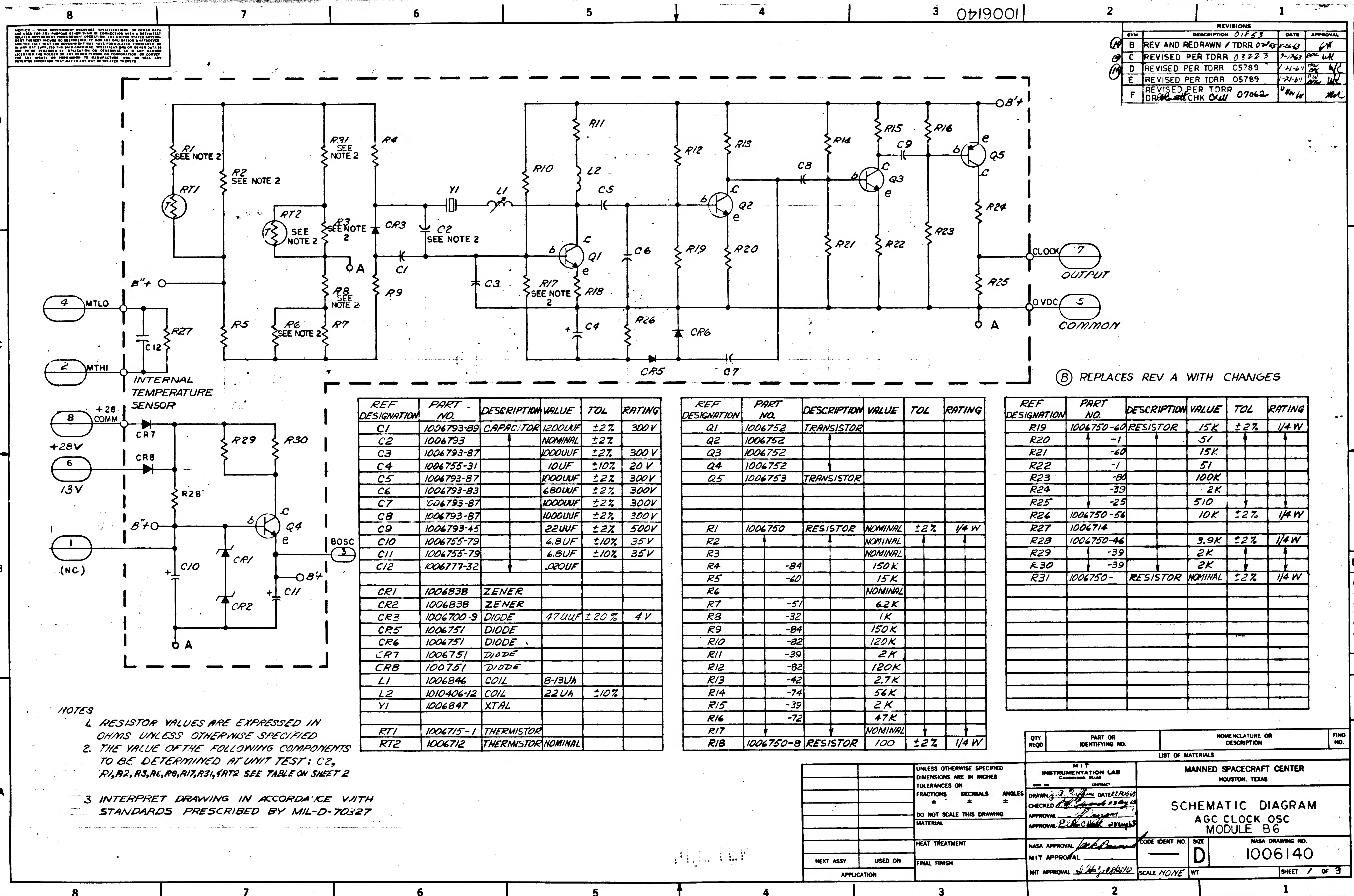
DASH NO.	VALUE
1006793 - 37	10
- 38	11
- 39	12
- 40	13
- 41	15
- 42	16
- 43	18
- 44	20
- 45	22
- 46	24
- 47	27
- 48	30
- 49	33
- 50	36
- 51	39
- 52	43
- 53	47
- 54	51
- 55	56
- 56	62
- 57	68
- 58	75
- 59	82
- 60	91
1006793 - 61	100

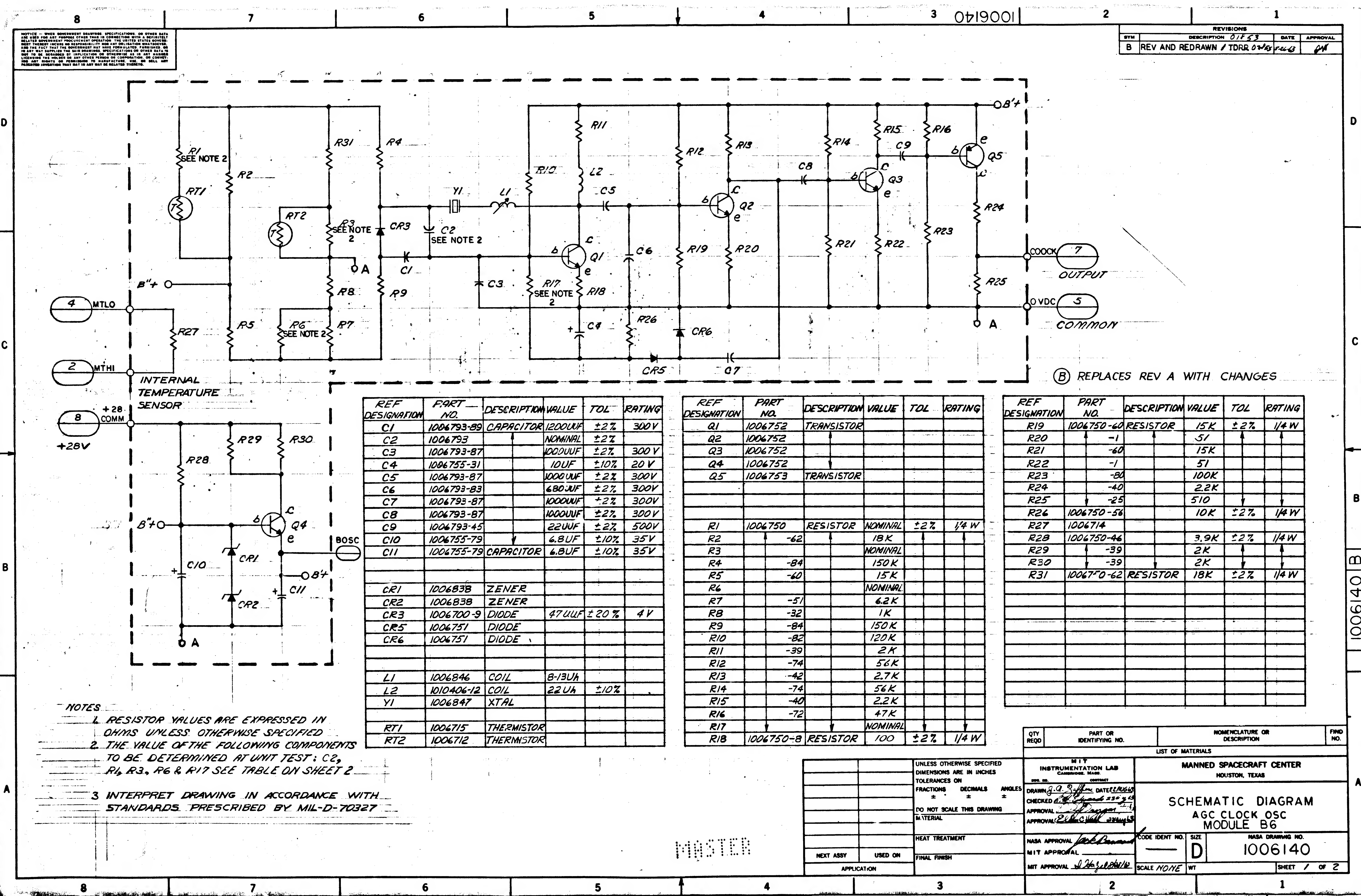
REV	DESCRIPTION	DATE	APPROVAL
E	THIS SHEET ADDED PER TDRR 05789	12/1/64	W.C.
F	REVISED PER TDRR 07062	12/1/64	W.C.
G	REVISED PER TDRR 08408	12/1/64	W.C.
H	REVISED PER TDRR 12600	12/1/64	W.C.
J	REVISED PER TDRR 16705	12/1/64	W.C.
K	REVISED PER TDRR 9999	12/1/64	W.C.
L	REVISED PER TDRR 21339	12/1/64	W.C.

THIS SHEET ADDED

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FINO NO.
LIST OF MATERIALS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES		INSTRUMENTATION LAB MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC AGC CLOCK OSC MODULE B6	
DO NOT SCALE THIS DRAWING MATERIAL		NASA APPROVAL DATE 12/1/64 SCALE NONE	
HEAT TREATMENT		NASA DRAWING NO. 1006140	
FINAL FINISH		SHEET 3 OF 3	

MASTER





NOTICE - WHEN DIMENSIONS ARE SPECIFIED IN INCHES, DIMENSIONS IN MILLIMETERS ARE NOT TO BE USED. DIMENSIONS IN MILLIMETERS ARE TO BE USED WHEN DIMENSIONS ARE SPECIFIED IN MILLIMETERS. DIMENSIONS IN INCHES ARE TO BE USED WHEN DIMENSIONS ARE SPECIFIED IN INCHES. DIMENSIONS IN MILLIMETERS ARE TO BE USED WHEN DIMENSIONS ARE SPECIFIED IN MILLIMETERS. DIMENSIONS IN INCHES ARE TO BE USED WHEN DIMENSIONS ARE SPECIFIED IN INCHES.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
B	REV AND REDRAWN / TDRR 02/25/63		PH

(B) REPLACES REV A WITH CHANGES

REF DESIGNATION	PART NO.	DESCRIPTION	VALUE	TOL	RATING
C1	1006793-89	CAPACITOR	1200UF	±2%	300V
C2	1006793		NOMINAL	±2%	
C3	1006793-87		1000UF	±2%	300V
C4	1006755-31		10UF	±10%	20V
C5	1006793-87		1000UF	±2%	300V
C6	1006793-83		680JUF	±2%	300V
C7	1006793-87		1000UF	±2%	300V
C8	1006793-87		1000UF	±2%	300V
C9	1006793-45		22UF	±2%	500V
C10	1006755-79		6.8UF	±10%	35V
C11	1006755-79	CAPACITOR	6.8UF	±10%	35V
CR1	100683B	ZENER			
CR2	100683B	ZENER			
CR3	1006700-9	DIODE	47UF	±20%	4V
CR5	1006751	DIODE			
CR6	1006751	DIODE			
L1	1006846	COIL	8-13UH		
L2	1010406-12	COIL	22UH	±10%	
Y1	1006847	XTAL			
RT1	1006715	THERMISTOR			
RT2	1006712	THERMISTOR			

REF DESIGNATION	PART NO.	DESCRIPTION	VALUE	TOL	RATING
Q1	1006752	TRANSISTOR			
Q2	1006752				
Q3	1006752				
Q4	1006752				
Q5	1006753	TRANSISTOR			
R1	1006750	RESISTOR	NOMINAL	±2%	1/4 W
R2	-62		18K		
R3			NOMINAL		
R4	-84		150K		
R5	-60		15K		
R6			NOMINAL		
R7	-51		6.2K		
R8	-32		1K		
R9	-84		150K		
R10	-82		120K		
R11	-39		2K		
R12	-74		56K		
R13	-42		2.7K		
R14	-74		56K		
R15	-40		2.2K		
R16	-72		47K		
R17			NOMINAL		
R18	1006750-8	RESISTOR	100	±2%	1/4 W

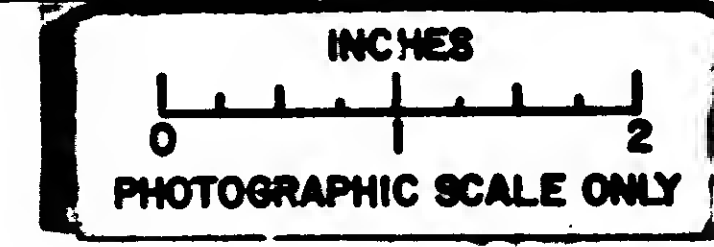
REF DESIGNATION	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R19	1006750-60	RESISTOR	15K	±2%	1/4 W
R20	-1		51		
R21	-60		15K		
R22	-1		51		
R23	-80		100K		
R24	-40		2.2K		
R25	-25		510		
R26	1006750-56		10K	±2%	1/4 W
R27	1006714				
R28	1006750-46		3.9K	±2%	1/4 W
R29	-39		2K		
R30	-39		2K		
R31	1006750-62	RESISTOR	18K	±2%	1/4 W

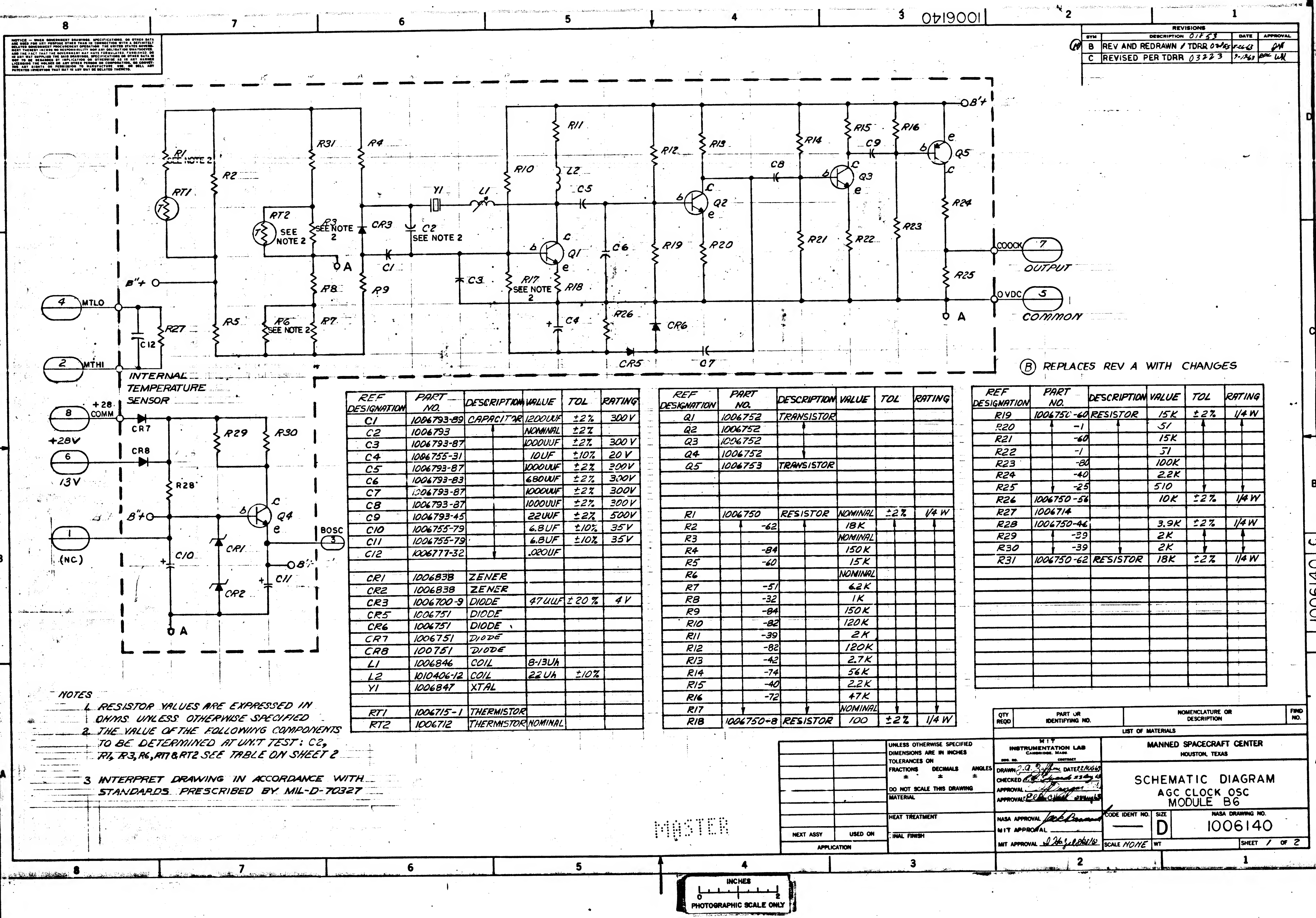
- NOTES
- RESISTOR VALUES ARE EXPRESSED IN OHMS UNLESS OTHERWISE SPECIFIED
 - THE VALUE OF THE FOLLOWING COMPONENTS TO BE DETERMINED AT UNIT TEST: C2, R4, R3, R6 & R17 SEE TABLE ON SHEET 2
 - INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES	
DO NOT SCALE THIS DRAWING MATERIAL	
HEAT TREATMENT	
FINAL FINISH	
APPLICATION	

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER	
DRAWING NO. 1006140		HOUSTON, TEXAS	
CHECKED BY [Signature]		SCHEMATIC DIAGRAM	
APPROVAL [Signature]		AGC CLOCK OSC	
NASA APPROVAL [Signature]		MODULE B6	
MIT APPROVAL [Signature]		NOMENCLATURE NO. 1006140	
SCALE NONE		SHEET 1 OF 2	

MASTER

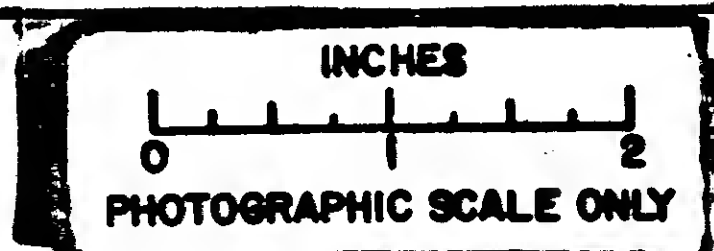




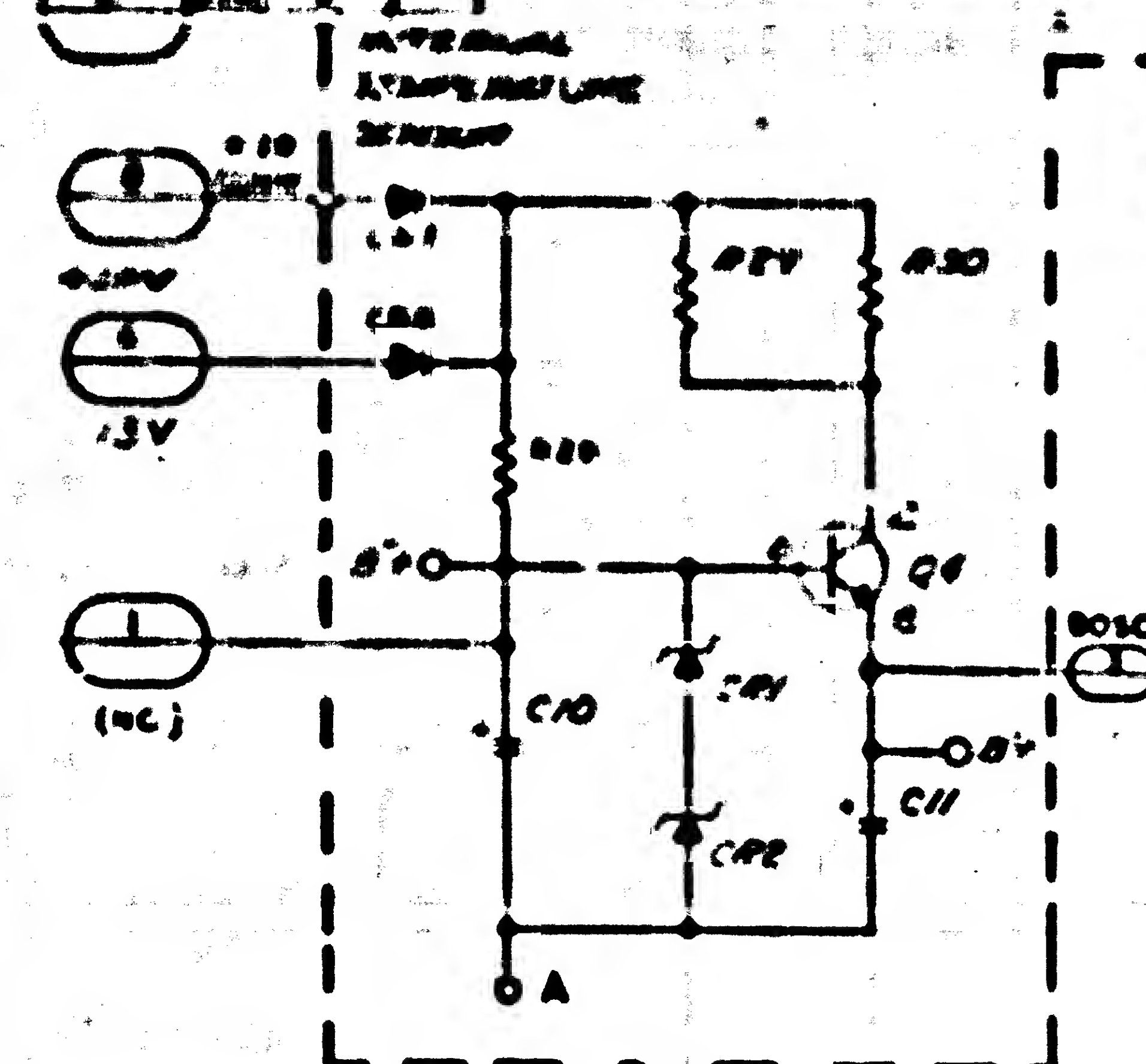
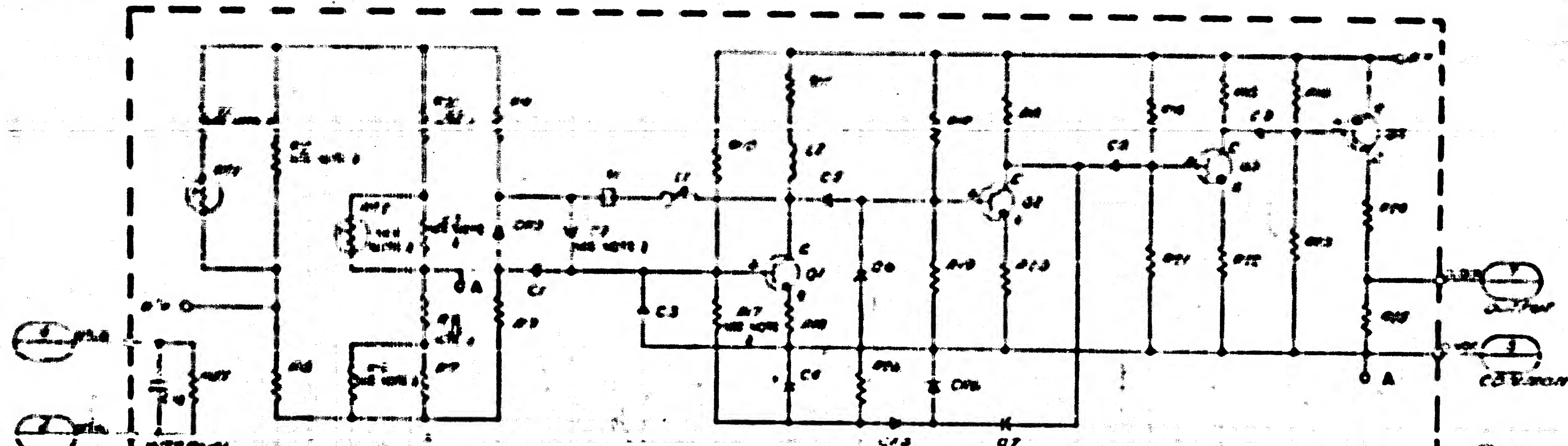
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
B	REV AND REDRAWN / TDRR 0243	1-1-63	PH
C	REVISED PER TDRR 03223	1-1-63	W

(B) REPLACES REV A WITH CHANGES

MASTER



QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FRID NO.
LIST OF MATERIALS			
NASA APPROVAL		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
MIT APPROVAL		SCHEMATIC DIAGRAM AGC CLOCK OSC MODULE B6	
NASA APPROVAL		CODE IDENT NO.	NASA DRAWING NO.
MIT APPROVAL		D	1006140
APPLICATION		SCALE	SHEET 1 OF 2



- NOTES
1. RESISTOR VALUES ARE EXPRESSED IN OHMS UNLESS OTHERWISE SPECIFIED
 2. THE VALUE OF THE FOLLOWING COMPONENTS TO BE DETERMINED AT UNIT TEST: C2, R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, C1, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, Q1, Q2, Q3, Q4, Q5, L1, L2, Y1, RT1, RT2.
 3. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

REF	PART NO	DESCRIPTION	VALUE	TOL	DEFINING
C1	1006751-01	CAPACITOR	1.0UF	±2%	300V
C2	1006751		NOMINAL	±2%	300V
C3	1006751-07		100UF	±2%	300V
C4	1006751-11		10UF	±2%	20V
C5	1006751-05		100UF	±2%	300V
C6	1006751-03		100UF	±2%	300V
C7	1006751-07		100UF	±2%	300V
C8	1006751-07		100UF	±2%	300V
C9	1006751-05		100UF	±2%	300V
C10	1006751-07		100UF	±2%	300V
C11	1006751-07		100UF	±2%	300V
C12	1006751-07		100UF	±2%	300V
CR1	1006878	ZENER			
CR2	1006878	ZENER			
CR3	1006700-9	DIODE	470UF ±20%		4V
CR5	1006751	DIODE			
CR6	1006751	DIODE			
CR7	1006751	DIODE			
CR8	1006751	DIODE			
L1	1006846	COIL	8-13UH		
L2	1010406-12	COIL	22UH	±10%	
Y1	1006847	XTAL			
RT1	1006715-1	THERMISTOR			
RT2	1006712	THERMISTOR	NOMINAL		

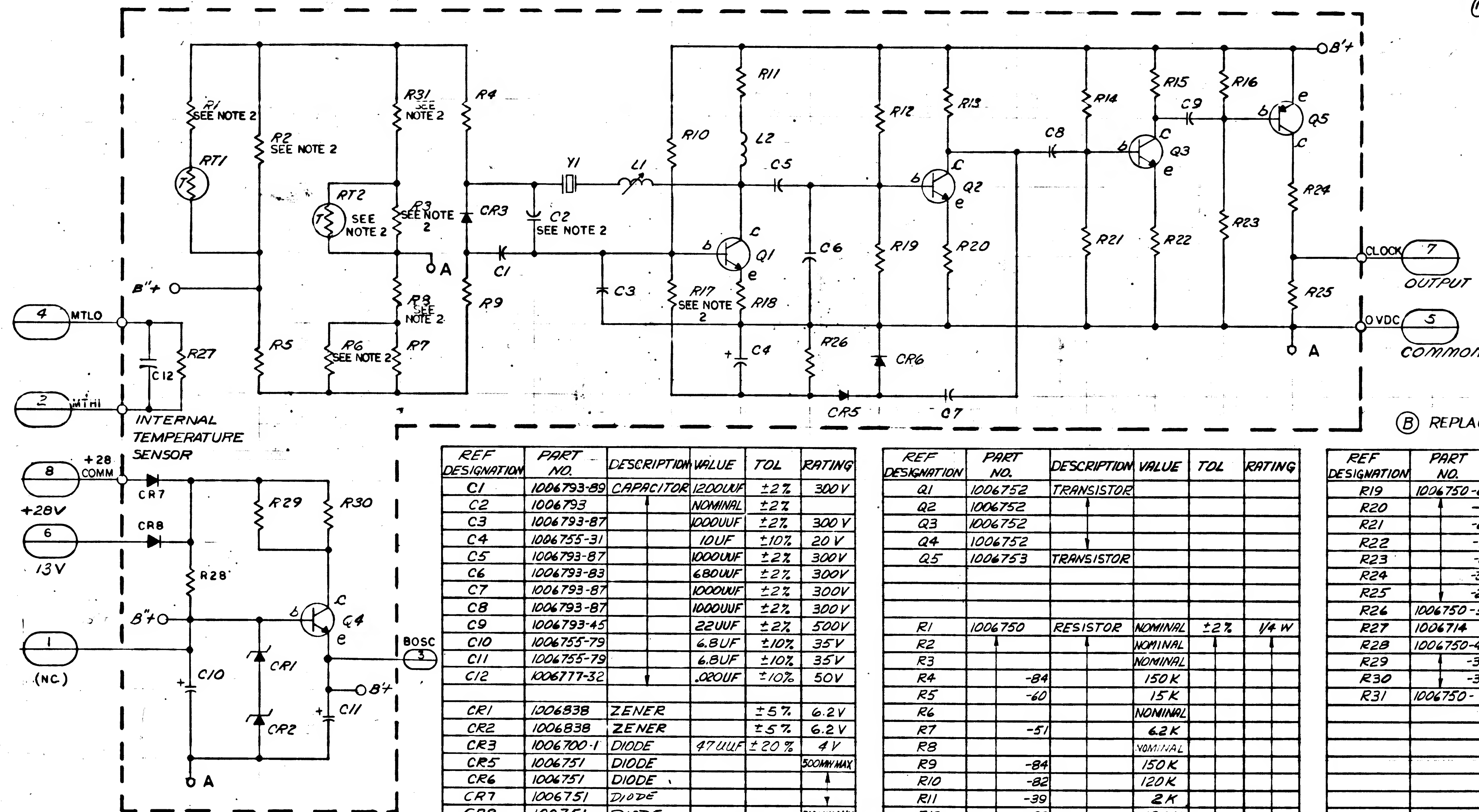
REF	PART NO	DESCRIPTION	VALUE	TOL	DEFINING
Q1	1006751	TRANSISTOR			
Q2	1006751				
Q3	1006751				
Q4	1006751				
Q5	1006751	TRANSISTOR			
R1	1006750	RESISTOR	NOMINAL	±2%	1/4 W
R2			NOMINAL		
R3			NOMINAL		
R4	-04		150K		
R5	-60		15K		
R6			NOMINAL		
R7	-51		63K		
R8	-32		1K		
R9	-04		150K		
R10	-02		120K		
R11	-35		2K		
R12	-02		120K		
R13	-42		27K		
R14	-74		56K		
R15	-40		22K		
R16	-72		47K		
R17			NOMINAL		
R18	1006750-8	RESISTOR	100	±2%	1/4 W

REF	PART NO	DESCRIPTION	VALUE	TOL	DEFINING
R19	1006751	RESISTOR	15K	±2%	1/4 W
R20	-1		5K		
R21	-2		15K		
R22	-1		5K		
R23	-2		15K		
R24	-3		100K		
R25	-4		2K		
R26	-5		510		
R27	-6		10K	±2%	1/4 W
R28	1006750-46		5.0K	±2%	1/4 W
R29	-39		2K		
R30	-39		2K		
R31	1006750	RESISTOR	NOMINAL	±2%	1/4 W

MASTER

QTY REQD		PART OR IDENTIFYING NO		NOMENCLATURE OR DESCRIPTION		FIND NO	
LIST OF MATERIALS							
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL				INSTRUMENTATION LAB DRAWN BY: J. B. [Signature] CHECKED BY: J. B. [Signature] APPROVED BY: J. B. [Signature]			
HEAT TREATMENT				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
NEXT ASSY				SCHEMATIC DIAGRAM AGC CLOCK OSC MODULE B6			
USED ON				CODE IDENT NO: D NABA DRAWING NO: 1006140			
APPLICATION				SCALE: NONE SHEET 1 OF 3			

NOTICE - WHEN SUBMITTING DRAWINGS, SPECIFICATIONS OR OTHER DATA FOR REVIEW, THE SUBMITTER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DATA AND THE FACT THAT THE SUBMITTER HAS BEEN ADVISED OF THE REQUIREMENTS FOR THE DATA. THE SUBMITTER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DATA AND THE FACT THAT THE SUBMITTER HAS BEEN ADVISED OF THE REQUIREMENTS FOR THE DATA. THE SUBMITTER SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DATA AND THE FACT THAT THE SUBMITTER HAS BEEN ADVISED OF THE REQUIREMENTS FOR THE DATA.



REV	DESCRIPTION	DATE	APPROVAL
B	REV AND REDRAWN / TDRR 05789	7-2-65	W
C	REVISED PER TDRR 03223	7-2-65	W
D	REVISED PER TDRR 05789	7-2-65	W
E	REVISED PER TDRR 05789	7-2-65	W
F	REVISED PER TDRR 08408	7-2-65	W
G	REVISED PER TDRR 08408	7-2-65	W

(B) REPLACES REV A WITH CHANGES

REF DESIGNATION	PART NO.	DESCRIPTION	VALUE	TOL	RATING
C1	1006793-89	CAPACITOR	1200UF	±2%	300V
C2	1006793		NOMINAL	±2%	
C3	1006793-87		1000UF	±2%	300V
C4	1006755-31		10UF	±10%	20V
C5	1006793-87		1000UF	±2%	300V
C6	1006793-83		680UF	±2%	300V
C7	1006793-87		1000UF	±2%	300V
C8	1006793-87		1000UF	±2%	300V
C9	1006793-45		22UF	±2%	500V
C10	1006755-79		6.8UF	±10%	35V
C11	1006755-79		6.8UF	±10%	35V
C12	1006777-32		.020UF	±10%	50V
CR1	1006838	ZENER		±5%	6.2V
CR2	1006838	ZENER		±5%	6.2V
CR3	1006700-1	DIODE	47UF	±20%	4V
CR5	1006751	DIODE			500MW MAX
CR6	1006751	DIODE			
CR7	1006751	DIODE			
CR8	1006751	DIODE			500MW MAX
L1	1006846	COIL	8-13UH		
L2	1010406-12	COIL	22UH	±10%	
Y1	1006847	XTAL			
RT1	1006715-1	THERMISTOR			
RT2	1006712	THERMISTOR	NOMINAL		

REF DESIGNATION	PART NO.	DESCRIPTION	VALUE	TOL	RATING
Q1	1006752	TRANSISTOR			
Q2	1006752				
Q3	1006752				
Q4	1006752				
Q5	1006753	TRANSISTOR			
R1	1006750	RESISTOR	NOMINAL	±2%	1/4 W
R2			NOMINAL		
R3			NOMINAL		
R4	-84		150K		
R5	-60		15K		
R6			NOMINAL		
R7	-51		62K		
R8			NOMINAL		
R9	-84		150K		
R10	-82		120K		
R11	-39		2K		
R12	-82		120K		
R13	-42		2.7K		
R14	-74		56K		
R15	-39		2K		
R16	-72		47K		
R17			NOMINAL		
R18	1006750-8	RESISTOR	100	±2%	1/4 W

REF DESIGNATION	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R19	1006750-60	RESISTOR	15K	±2%	1/4 W
R20	-1		51		
R21	-60		15K		
R22	-1		51		
R23	-24		100K		
R24	-39		2K		
R25	-25		510		
R26	1006750-56		10K	±2%	1/4 W
R27	1006714				
R28	1006750-46		3.9K	±2%	1/4 W
R29	-39		2K		
R30	-39		2K		
R31	1006750-	RESISTOR	NOMINAL	±2%	1/4 W

NOTES

- RESISTOR VALUES ARE EXPRESSED IN OHMS UNLESS OTHERWISE SPECIFIED
- THE VALUE OF THE FOLLOWING COMPONENTS TO BE DETERMINED AT UNIT TEST: C2, R1, R2, R3, R6, R8, R17, R31, R32 SEE TABLE ON SHEET 2

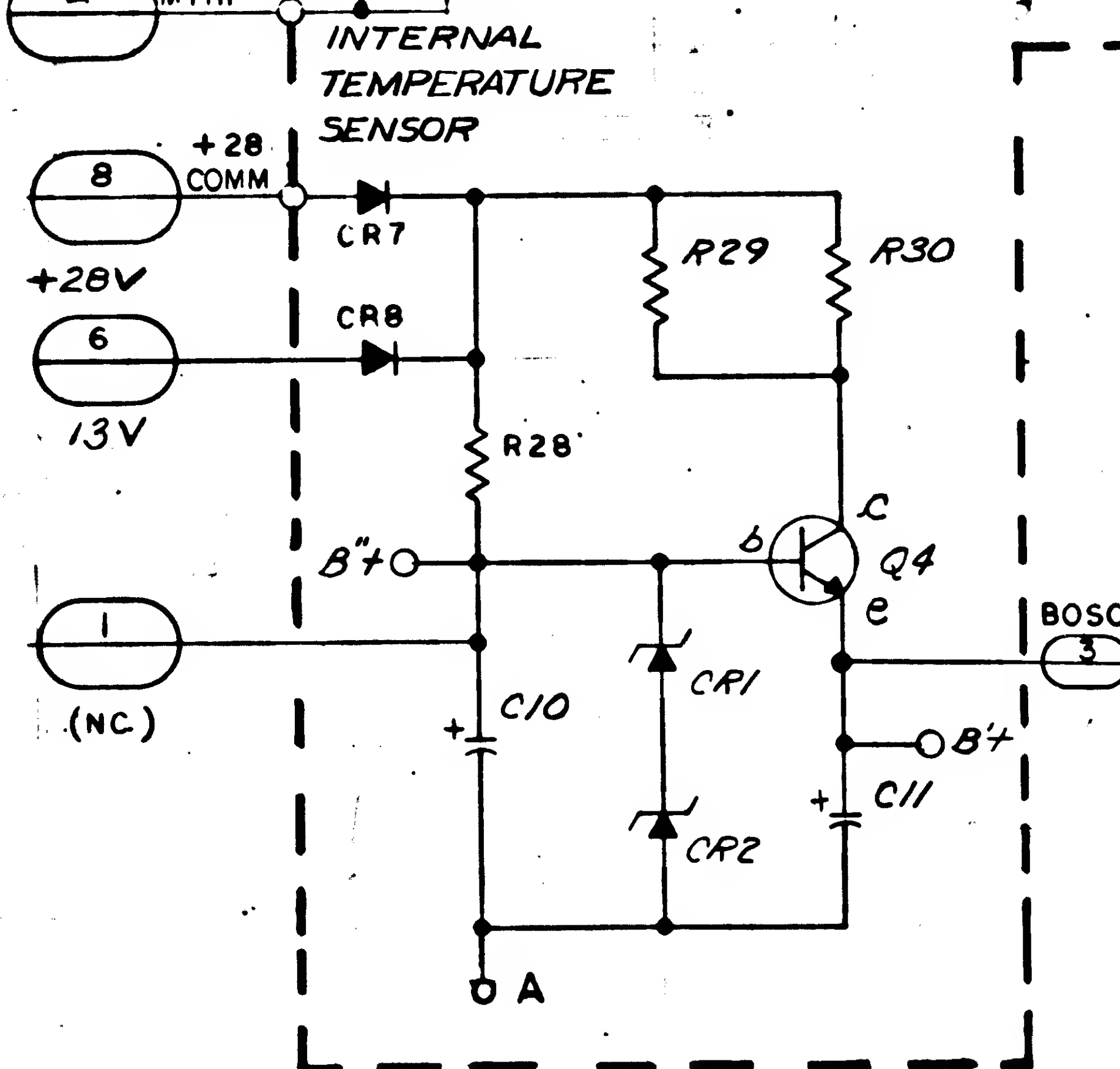
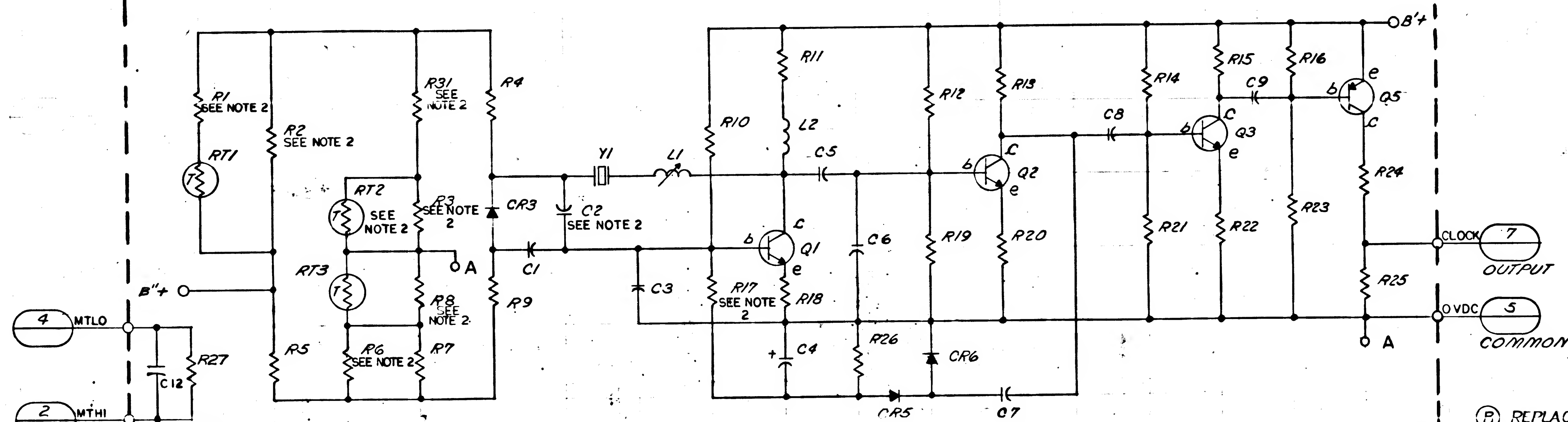
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	HEAT TREATMENT
TOLERANCES ON FRACTIONS DECIMALS ANGLES	FINAL FINISH
DO NOT SCALE THIS DRAWING MATERIAL	
NEXT ASSY USED ON	APPLICATION

REF DRAWING: 1003526 AGC OSC ASSEM

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER	
HOUSTON, TEXAS		HOUSTON, TEXAS	
SCHEMATIC DIAGRAM			
AGC CLOCK OSC			
MODULE B6			
NASA APPROVAL	CODE IDENT NO.	SIZE	NASA DRAWING NO.
MIT APPROVAL		D	1006140
SCALE		NOTE	WT
1		SHEET 1 OF 3	

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH THEY WERE ORIGINALLY PREPARED, THE USER ASSUMES ALL LIABILITY FOR ANY INADEQUACIES, OMISSIONS, OR ERRORS. THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMISSIONS FROM THE ORIGINATOR OF THE DATA AND FOR OBTAINING THE NECESSARY PERMISSIONS FROM THE ORIGINATOR OF THE DATA AND FOR OBTAINING THE NECESSARY PERMISSIONS FROM THE ORIGINATOR OF THE DATA.



REF DESIGNATION	PART NO.	DESCRIPTION	VALUE	TOL	RATING
C1	1006793-89	CAPACITOR	1200UF	±2%	300V
C2	1006793		NOMINAL	±2%	300V
C3	1006793-87		1000UF	±2%	300V
C4	1006755-31		10UF	±10%	20V
C5	1006793-87		1000UF	±2%	300V
C6	1006793-83		680UF	±2%	300V
C7	1006793-87		1000UF	±2%	300V
C8	1006793-87		1000UF	±2%	300V
C9	1006793-45		22UF	±2%	500V
C10	1006755-79		6.8UF	±10%	35V
C11	1006755-79		6.8UF	±10%	35V
C12	1006777-32		.020UF	±10%	50V
CR1	1006838	ZENER		±5%	6.2V
CR2	1006838	ZENER		±5%	6.2V
CR3	1006700-1	DIODE	47UF	±20%	4V
CR5	1006751	DIODE			500mW MAX
CR6	1006751	DIODE			
CR7	1006751	DIODE			
CR8	1006751	DIODE			320mW MAX
L1	1006846	COIL	8-13UH		
L2	1010406-12	COIL	22UH	±10%	
Y1	1006847	XTAL			
RT1	1006715-1	THERMISTOR			
RT2	1006712	THERMISTOR	NOMINAL		
RT3	1006291	THERMISTOR			

REF DESIGNATION	PART NO.	DESCRIPTION	VALUE	TOL	RATING
Q1	1006752	TRANSISTOR			
Q2	1006752				
Q3	1006752				
Q4	1006752				
Q5	1006752	TRANSISTOR			
R1	1006750	RESISTOR	NOMINAL	±2%	1/4 W
R2			NOMINAL		
R3			NOMINAL		
R4	-84		150K		
R5	-60		15K		
R6			NOMINAL		
R7	-51		6.2K		
R8			NOMINAL		
R9	-84		150K		
R10	-82		120K		
R11	-39		2K		
R12	-82		120K		
R13	-42		2.7K		
R14	-74		56K		
R15	-39		2K		
R16	-72		47K		
R17			NOMINAL		
R18	1006750-8	RESISTOR	100	±2%	1/4 W

REF DESIGNATION	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R19	1006750-60	RESISTOR	15K	±2%	1/4 W
R20	-1		51		
R21	-60		15K		
R22	-1		51		
R23	-60		100K		
R24	-39		2K		
R25	-25		510		
R26	1006750-56		10K	±2%	1/4 W
R27	1006714				
R28	1006750-46		3.9K	±2%	1/4 W
R29	-39		2K		
R30	-39		2K		
R31	1006750-	RESISTOR	NOMINAL	±2%	1/4 W

NOTES

- RESISTOR VALUES ARE EXPRESSED IN OHMS UNLESS OTHERWISE SPECIFIED
- THE VALUE OF THE FOLLOWING COMPONENTS TO BE DETERMINED AT UNIT TEST: C2, R1, R2, R3, R6, R8, R17, R31, RT2 SEE TABLE ON SHEET 2
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

REV	DESCRIPTION	DATE	APPROVAL
B	REV AND REDRAWN / TDRR 02/23	2/23/63	PH
C	REVISED PER TDRR 03223	2/23/63	PH
D	REVISED PER TDRR 05789	2/23/63	PH
E	REVISED PER TDRR 05789	2/23/63	PH
F	REVISED PER TDRR 07062	2/23/63	PH
G	REVISED PER TDRR 08408	2/23/63	PH
H	REVISED PER TDRR 12630	2/23/63	PH

(B) REPLACES REV A WITH CHANGES

REF DRAWING 1003526 AGC OSC. ASSEM

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIG NO.
LIST OF MATERIALS						
M I T INSTRUMENTATION LAB CONTRACT NO. 100-100-0000 DRAWN BY J. B. BROWN DATE 1/26/63 CHECKED BY J. B. BROWN DATE 1/26/63 APPROVAL BY J. B. BROWN DATE 1/26/63				MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
HEAT TREATMENT FINAL FINISH				NASA APPROVAL NIT APPROVAL NIT APPROVAL		
NEXT ASSY USED ON APPLICATION				SCHEMATIC DIAGRAM AGC CLOCK OSC MODULE B6 CODE IDENT NO. D NITA DRAWING NO. 1006140 SCALE NONE WT SHEET 1 OF 3		

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIN NO	
				LIST OF MATERIALS			
		MIT INSTRUMENTATION LAB CAMBRIDGE MASS DRG NO. _____ CONTRACT _____		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ±		DRAWN <u>E. W. Webb</u> DATE <u>12/14/64</u> CHECKED <u>C. J. Decker</u> APPROVAL _____ APPROVAL <u>C. J. Decker</u>		SCHEMATIC AGC CLOCK OSC MODULE B6			
DO NOT SCALE THIS DRAWING		NASA APPROVAL <u>C. J. Decker</u>		CODE IDENT NO. _____ SIZE <u>D</u> NASA DRAWING NO. <u>1006140</u>			
MATERIAL		MIT APPROVAL <u>C. J. Decker</u>		SCALE <u>NO</u> 1:1 WT _____ SHEET <u>2</u> OF <u>3</u>			
HEAT TREATMENT							
NEXT ASSY							
USED ON							
APPLICATION							
FINAL FINISH							

8719001

1

REVISIONS 01853

REV 8 REDRAWN / TDRR 02/55

DATE 1/10/54

APPROVAL JH

R3

DASH NO.	OHMS ± 2 %
1006750-25	510
↑ -26	560
↑ -27	620
↑ -28	680
↑ -29	750
↑ -30	820
↑ -31	910
↑ -32	1000
↑ -33	1100
↑ -34	1200
↑ -35	1300
↑ -36	1500
↑ -37	1600
↑ -38	1800
↑ -39	2000
↑ -40	2200
↑ -41	2400
↑ -42	2700
↑ -43	3000
↑ -44	3300
↑ -45	3600
↑ -46	3900
↑ -47	4300
1006750-48	4700

R6

DASH NO.	OHMS ± 2 %
1006750-32	1000
↑ -33	1100
↑ -34	1200
↑ -35	1300
↑ -36	1500
↑ -37	1600
↑ -38	1800
↑ -39	2000
↑ -40	2200
↑ -41	2400
↑ -42	2700
↑ -43	3000
↑ -44	3300
↑ -45	3600
↑ -46	3900
↑ -47	4300
↑ -48	4700
↑ -49	5100
↑ -50	5600
↑ -51	6200
↑ -52	6800
↑ -53	7500
↑ -54	8200
↑ -55	9100
1006750-56	10K

R1

DASH NO.	OHMS ± 2 %
1006750-57	11K
↑ -58	12K
↑ -59	13K
↑ -60	15K
↑ -61	16K
↑ -62	18K
↑ -63	20K
1006750-64	22K

C2

DASH NO.	VALUE WUF
1006793-37	10
↑ -38	11
↑ -39	12
↑ -40	13
↑ -41	15
↑ -42	16
↑ -43	18
↑ -44	20
↑ -45	22
↑ -46	24
↑ -47	27
↑ -48	30
↑ -49	33
↑ -50	36
↑ -51	39
↑ -52	43
↑ -53	47
↑ -54	51
↑ -55	56
↑ -56	62
↑ -57	68
↑ -58	75
↑ -59	82
↑ -60	91
1006793-61	100

R17

DASH NO.	OHMS ± 2 %
1006750-55	9.1 K
↑ -56	10 K
↑ -57	11 K
↑ -58	12 K
↑ -59	13 K
1006750-60	15K

MASTER

0 1 2 INCHES PHOTOGRAPHIC SCALE ONLY

QTY REQD

PART OR IDENTIFYING NO.

NOMENCLATURE OR DESCRIPTION

FINO NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ± DO NOT SCALE THIS DRAWING MATERIAL

HEAT TREATMENT

FINAL FINISH

APPLICATION

MIT INSTRUMENTATION LAB Cambridge, Mass CONTRACT

DRAWN *[Signature]* DATE 2/2/54

CHECKED *[Signature]* DATE 2/2/54

APPROVAL *[Signature]* DATE 2/2/54

NASA APPROVAL *[Signature]*

MIT APPROVAL *[Signature]*

MIT APPROVAL *[Signature]*

LIST OF MATERIALS

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

SCHEMATIC DIAGRAM AGC CLOCK OSC MODULE B6

CODE IDENT NO. SIZE NASA DRAWING NO.

SCALE NONE

WT

SHEET 2 OF 2

NOTES - THIS DOCUMENT IS A WORKING DRAWING. IT IS NOT TO BE USED FOR CONSTRUCTION OF A PHYSICAL MODEL OR FOR THE FABRICATION OF A PART. IT IS THE RESPONSIBILITY OF THE USER TO OBTAIN THE NECESSARY INFORMATION FROM THE APPROPRIATE SOURCES TO DETERMINE THE EXACT DIMENSIONS AND TOLERANCES OF THE PART. THE USER SHALL BE RESPONSIBLE FOR THE CORRECT INTERPRETATION OF THE DRAWING AND FOR THE CORRECT FABRICATION OF THE PART. THE USER SHALL BE RESPONSIBLE FOR THE CORRECT INTERPRETATION OF THE DRAWING AND FOR THE CORRECT FABRICATION OF THE PART.

REVISIONS 01/85			
REV	DESCRIPTION	DATE	APPROVAL
B	REV E REDRAWN / TDRR 02/55	1/10/55	SM
C	REVISED PER TDRR 03/23	2-12-55	WJ

R3	
DASH NO.	OHMS $\pm 2\%$
1006750-25	510
↑ -26	560
↑ -27	620
↑ -28	680
↑ -29	750
↑ -30	820
↑ -31	910
↑ -32	1000
↑ -33	1100
↑ -34	1200
↑ -35	1300
↑ -36	1500
↑ -37	1600
↑ -38	1800
↑ -39	2000
↑ -40	2200
↑ -41	2400
↑ -42	2700
↑ -43	3000
↑ -44	3300
↑ -45	3600
↑ -46	3900
↑ -47	4300
1006750-48	4700

R6	
DASH NO.	OHMS $\pm 2\%$
1006750-32	1000
↑ -33	1100
↑ -34	1200
↑ -35	1300
↑ -36	1500
↑ -37	1600
↑ -38	1800
↑ -39	2000
↑ -40	2200
↑ -41	2400
↑ -42	2700
↑ -43	3000
↑ -44	3300
↑ -45	3600
↑ -46	3900
↑ -47	4300
↑ -48	4700
↑ -49	5100
↑ -50	5600
↑ -51	6200
↑ -52	6800
↑ -53	7500
↑ -54	8200
↑ -55	9100
1006750-56	10K

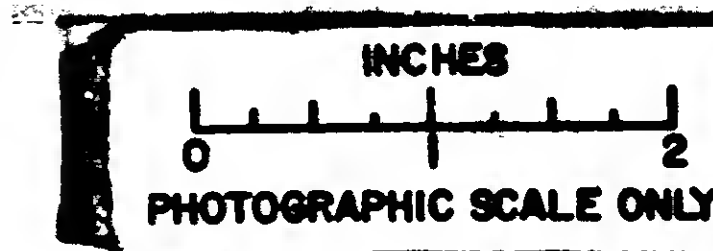
R1	
DASH NO.	OHMS $\pm 2\%$
1006750-57	11K
↑ -58	12K
↑ -59	13K
↑ -60	15K
↑ -61	16K
↑ -62	18K
↑ -63	20K
1006750-64	22K

R17	
DASH NO.	OHMS $\pm 2\%$
1006750-55	9.1K
↑ -56	10K
↑ -57	11K
↑ -58	12K
↑ -59	13K
1006750-60	15K

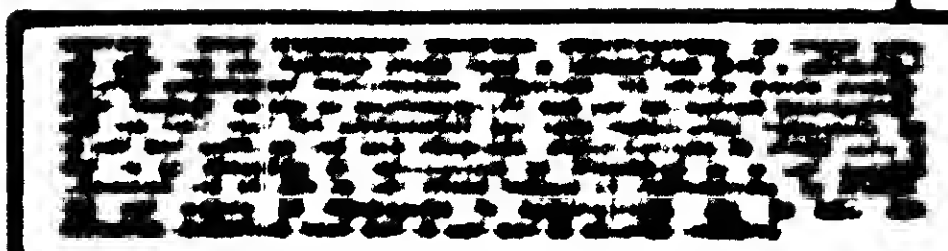
C2	
DASH NO.	VALUE μUF
1006793-37	10
↑ -38	11
↑ -39	12
↑ -40	13
↑ -41	15
↑ -42	16
↑ -43	18
↑ -44	20
↑ -45	22
↑ -46	24
↑ -47	27
↑ -48	30
↑ -49	33
↑ -50	36
↑ -51	39
↑ -52	43
↑ -53	47
↑ -54	51
↑ -55	56
↑ -56	62
↑ -57	68
↑ -58	75
↑ -59	82
↑ -60	91
1006793-61	100

RT 2	
DASH NO.	OHMS
1006712-1	500
↑ -2	1000
↑ -3	5000

MASTER



QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>[Signature]</i> DATE 2/2/53		SCHEMATIC DIAGRAM	
CHECKED <i>[Signature]</i> DATE 2/2/53		AGC CLOCK OSC	
APPROVAL <i>[Signature]</i> DATE 2/2/53		MODULE B6	
NASA APPROVAL <i>[Signature]</i>		CODE IDENT NO.	NASA DRAWING NO.
MIT APPROVAL <i>[Signature]</i>		SIZE D	1006140
MIT APPROVAL <i>[Signature]</i>		SCALE NONE	WT
APPLICATION		SHEET 2 OF 2	



REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	REVISED PER TDR 05789	10/1/64	WJ
2	REPLACED BY REV E WITH CHANGES PER TDR 05789	10/1/64	WJ

R3	
DASH NO.	OHMS $\pm 2\%$
1006750-25	510
-26	560
-27	620
-28	680
-29	750
-30	820
-31	910
-32	1000
-33	1100
-34	1200
-35	1300
-36	1500
-37	1600
-38	1800
-39	2000
-40	2200
-41	2400
-42	2700
-43	3000
-44	3300
-45	3600
-46	3900
-47	4300
1006750-48	4700

R6	
DASH NO.	OHMS $\pm 2\%$
1006750-32	1000
-33	1100
-34	1200
-35	1300
-36	1500
-37	1600
-38	1800
-39	2000
-40	2200
-41	2400
-42	2700
-43	3000
-44	3300
-45	3600
-46	3900
-47	4300
-48	4700
-49	5100
-50	5600
-51	6200
-52	6800
-53	7500
-54	8200
-55	9100
1006750-56	10K

R1	
DASH NO.	OHMS $\pm 2\%$
1006750-57	11K
-58	12K
-59	13K
-60	15K
-61	16K
-62	18K
-63	20K
1006750-64	22K

R17	
DASH NO.	OHMS $\pm 2\%$
1006750-55	9.1K
-56	10K
-57	11K
-58	12K
-59	13K
1006750-60	15K

C2	
DASH NO.	VALUE
1006793-37	10
-38	11
-39	12
-40	13
-41	15
-42	16
-43	18
-44	20
-45	22
-46	24
-47	27
-48	30
-49	33
-50	36
-51	39
-52	43
-53	47
-54	51
-55	56
-56	62
-57	68
-58	75
-59	82
-60	91
1006793-61	100

RT 2	
DASH NO.	OHMS
1006712-1	500
-2	1000
-3	5000

Ⓐ REPLACED BY REV E WITH CHANGES

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG. NO.
LIST OF MATERIALS			
INSTRUMENTATION LAB COMMERCIAL BRAND		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN BY <u>W. J. WILSON</u> DATE <u>10/1/64</u>		SCHEMATIC DIAGRAM	
CHECKED BY <u>W. J. WILSON</u>		AGC CLOCK OSC	
APPROVAL BY <u>W. J. WILSON</u>		MODULE B6	
NASA APPROVAL <u>W. J. WILSON</u>		CODE IDENT NO.	NASA DRAWING NO.
MIT APPROVAL <u>W. J. WILSON</u>		—	1006140
MIT APPROVAL <u>W. J. WILSON</u>		SCALE <u>NONE</u>	WT
APPLICATION		SHEET 2 OF 2	

8	7	6	5	4	3	2	1										
<p>THIS DRAWING IS THE PROPERTY OF THE U.S. GOVERNMENT AND IS TO BE USED FOR THE PURPOSES OF THE CONTRACT ONLY. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE U.S. GOVERNMENT. THE U.S. GOVERNMENT MAKES NO WARRANTY, EXPRESS OR IMPLIED, FOR THE ACCURACY, COMPLETENESS, OR USEFULNESS OF THE INFORMATION CONTAINED HEREIN. THE U.S. GOVERNMENT SHALL NOT BE LIABLE FOR ANY DAMAGES OR LOSSES, INCLUDING ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, ARISING OUT OF OR RESULTING FROM THE USE OF THE INFORMATION CONTAINED HEREIN. THE U.S. GOVERNMENT SHALL NOT BE LIABLE FOR ANY CLAIMS OR DAMAGES, INCLUDING ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, ARISING OUT OF OR RESULTING FROM THE USE OF THE INFORMATION CONTAINED HEREIN.</p>							<table><tr><th colspan="3">REVISIONS</th></tr><tr><th>BY</th><th>DESCRIPTION</th><th>DATE</th></tr><tr><td>E</td><td>REDRAWN WITH CHANGES PER DRR 05789</td><td>1/1/89</td></tr></table>		REVISIONS			BY	DESCRIPTION	DATE	E	REDRAWN WITH CHANGES PER DRR 05789	1/1/89
REVISIONS																	
BY	DESCRIPTION	DATE															
E	REDRAWN WITH CHANGES PER DRR 05789	1/1/89															

R3					
DASH NO.	0HMS ± 2°	DASH NO.	0HMS ± 2°	DASH NO.	0HMS ± 2°
1006750 - 25	910	1006750 - 43	3 K	1006750 - 43	14 K
- 109	535	- 127	3.5K	- 60	15 K
- 26	560	- 44	3.3K	- 144	15.5K
- 110	570	- 128	3.45K	- 61	16 K
- 27	620	- 45	3.6K	- 145	17 K
- 111	650	- 129	3.75K	- 62	18 K
- 28	680	- 46	3.7K	- 146	19 K
- 112	715	- 130	4.1K	- 63	20K
- 29	750	- 47	4.3K	- 147	21K
- 113	785	- 131	4.5K	- 64	22K
- 30	820	- 48	4.7K	- 148	23K
- 114	865	- 132	4.9K	- 65	24K
- 31	910	- 49	5.1K	- 149	25.5K
- 115	955	- 133	5.35K	- 66	27K
- 32	1 K	- 50	5.6K	- 150	28.5K
- 116	1.05K	- 134	5.9K	- 67	30K
- 33	1.1K	- 51	6.2K	- 151	31.5K
- 117	1.15K	- 135	6.5K	- 68	33K
- 34	1.2K	- 52	6.8K	- 152	34.5K
- 118	1.25K	- 136	7.15K	- 69	36K
- 35	1.3K	- 53	7.5K	- 153	37.5K
- 119	1.4K	- 137	7.85K	- 70	39K
- 36	1.5K	- 54	8.2K	- 154	41K
- 120	1.55K	- 138	8.65K	- 71	43K
- 37	1.6K	- 55	9.1K	- 155	45K
- 121	1.7K	- 139	9.55K	- 72	47K
- 38	1.8K	- 56	10K	- 156	49K
- 122	1.9K	- 140	10.5K	- 73	51K
- 39	2.0K	- 57	11 K	- 157	53.5K
- 123	2.1K	- 141	11.5K	- 74	56K
- 40	2.2K	- 58	12 K	- 158	59K
- 124	2.3K	- 142	12.5K	1006750 - 75	62K
- 41	2.4K	1006750 - 59	13K		
- 125	2.55K				
- 42	2.7K				
1006750 - 126	2.85K				

R6			
DASH NO.	OHMS ± 2%	DASH NO.	OHMS ± 2%
1006750 - 32	1 K	1006750 - 51	6.2 K
— 116	1.05 K	— 135	6.5 K
— 33	1.1 K	— 52	6.8 K
— 117	1.15 K	— 136	7.15 K
— 34	1.2 K	— 53	7.5 K
— 118	1.25 K	— 137	7.85 K
— 35	1.3 K	— 54	8.2 K
— 119	1.4 K	— 138	8.65 K
— 36	1.5 K	— 55	9.1 K
— 120	1.55 K	— 139	9.55 K
— 37	1.6 K	— 56	10 K
— 121	1.7 K	— 140	10.5 K
— 38	1.8 K	— 57	11 K
— 122	1.9 K	— 141	11.5 K
— 39	2.0 K	— 58	12 K
— 123	2.1 K	— 142	12.5 K
— 40	2.2 K	— 59	13 K
— 124	2.3 K	— 143	14 K
— 41	2.4 K	— 60	15 K
— 125	2.55 K	— 144	15.5 K
— 42	2.7 K	— 61	16 K
— 126	2.85 K	— 145	17 K
— 43	3 K	— 62	18 K
— 127	3.15 K	— 146	19 K
— 44	3.3 K	— 63	20 K
— 128	3.45 K	— 147	21 K
— 45	3.6 K	— 64	22 K
— 129	3.75 K	— 148	23 K
— 46	3.9 K	— 65	24 K
— 130	4.1 K	— 149	25.5 K
— 47	4.3 K	— 66	27 K
— 131	4.5 K	— 150	28.5 K
— 48	4.7 K	— 67	30 K
— 132	4.9 K	— 151	31.5 K
— 49	5.1 K	1006750 - 68	33 K
— 133	5.35 K		
— 50	5.6 K		
1006750 - 134	5.9 K		

R 8					
DASH NO.		OHMS*27	DASH NO.		OHMS*27
1006750	- 25	510	1006750	- 43	3 K
	- 109	535		- 127	3.15 K
	- 26	560		- 44	3.3 K
	- 110	590		- 128	3.45 K
	- 27	620		- 45	3.6 K
	- 111	650		- 129	3.75 K
	- 28	680		- 46	3.9 K
	- 112	715		- 130	4.1 K
	- 29	750		- 47	4.3 K
	- 113	785		- 131	4.5 K
	- 30	820		- 48	4.7 K
	- 114	865		- 132	4.9 K
	- 31	910		- 49	5.1 K
	- 115	955		- 133	5.35 K
	- 32	1 K		- 50	5.6 K
	- 116	1.05 K		- 134	5.9 K
	- 33	1.1 K		- 51	6.2 K
	- 117	1.15 K		- 135	6.5 K
	- 34	1.2 K		- 52	6.8 K
	- 118	1.25 K		- 136	7.15 K
	- 35	1.3 K		- 53	7.5 K
	- 119	1.4 K		- 137	7.85 K
	- 36	1.5 K		- 54	8.2 K
	- 120	1.55 K		- 138	8.65 K
	- 37	1.6 K		- 55	9.1 K
	- 121	1.7 K		- 139	9.55 K
	- 38	1.8 K		- 56	10 K
	- 122	1.9 K		- 140	10.5 K
	- 39	2.0 K		- 57	11 K
	- 123	2.1 K		- 141	11.5 K
	- 40	2.2 K	1006750	- 58	12 K
	- 124	2.3 K	1006757	- 11	0
	- 41	2.4 K			
	- 125	2.55 K			
	- 42	2.7 K			
1006750	- 126	2.85 K			

⑤ REPLACES REV D WITH CHANGES

		QTY REQ		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIN NO	
				LIST OF MATERIALS					
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ± DO NOT SCALE THIS DRAWING MATERIAL		CITY INSTRUMENTATION LAB CAMBRIDGE, MASS DWS NO. CONTRACT DRAWN <u>E. Walle</u> DATE <u>1/21/64</u> CHECKED <u>E. G. Hymans</u> APPROVAL APPROVAL <u>E. G. Hymans</u>		MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC AGC CLOCK OSC MODULE B6			
		HEAT TREATMENT		NASA APPROVAL <u>E. G. Hymans</u>		CODE IDENT NO. SIZE		NASA DRAWING NO.	
NEXT ASSY USED ON		FINAL FINISH		MIT APPROVAL <u>E. G. Hymans</u>		D		1006140	
ADDITIONAL						SCALE NONE WT		SHEET 2 OF 3	

NOTICE: THIS DRAWING IS A SUMMARY OF THE DATA AND INFORMATION CONTAINED IN THE DRAWING. IT IS NOT TO BE USED AS A SUBSTITUTE FOR THE ORIGINAL DRAWING. THE ORIGINAL DRAWING IS THE ONLY SOURCE OF INFORMATION FOR THE DESIGN AND CONSTRUCTION OF THE PART. THE DATA AND INFORMATION CONTAINED IN THIS DRAWING IS THE PROPERTY OF THE NASA AND IS TO BE KEPT SECRET. IT IS NOT TO BE RELEASED OR DISCLOSED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE NASA. THE DATA AND INFORMATION CONTAINED IN THIS DRAWING IS TO BE KEPT SECRET AND IS NOT TO BE RELEASED OR DISCLOSED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE NASA.

REV	DESCRIPTION	DATE	APPROVAL
E	REDRAWN WITH CHANGES PER TDRR 05789	2/1/64	WHL
F	REVISED PER TDRR 07062	2/1/64	WHL
G	REVISED PER TDRR 08408	5/1/64	WHL

DASH NO.	OHMS ± 2%	DASH NO.	OHMS ± 2%	DASH NO.	OHMS ± 2%
1006750 - 25	510	1006750 - 43	3 K	1006750 - 143	14 K
- 109	535	- 127	3.15K	- 60	15 K
- 26	560	- 44	3.3K	- 144	15.5K
- 110	590	- 128	3.45K	- 61	16 K
- 27	620	- 45	3.6 K	- 145	17 K
- 111	650	- 129	3.75K	- 62	18 K
- 28	680	- 46	3.9 K	- 146	19 K
- 112	715	- 130	4.1 K	- 63	20K
- 29	750	- 47	4.3K	- 147	21K
- 113	785	- 131	4.5K	- 64	22K
- 30	820	- 48	4.7K	- 148	23K
- 114	865	- 132	4.9K	- 65	24K
- 31	910	- 49	5.1K	- 149	25.5K
- 115	955	- 133	5.35K	- 66	27K
- 32	1 K	- 50	5.6K	- 150	28.5K
- 116	1.05K	- 134	5.9K	- 67	30K
- 33	1.1K	- 51	6.2K	- 151	31.5K
- 117	1.15K	- 135	6.5K	- 68	33K
- 34	1.2K	- 52	6.8K	- 152	34.5K
- 118	1.25K	- 136	7.15K	- 69	36K
- 35	1.3K	- 53	7.5K	- 153	37.5K
- 119	1.4K	- 137	7.85K	- 70	39K
- 36	1.5K	- 54	8.2K	- 154	41K
- 120	1.55K	- 138	8.65K	- 71	43K
- 37	1.6K	- 55	9.1K	- 155	45K
- 121	1.7K	- 139	9.55K	- 72	47K
- 38	1.8K	- 56	10K	- 156	49K
- 122	1.9K	- 140	10.5K	- 73	51K
- 39	2.0K	- 57	11 K	- 157	53.5K
- 123	2.1K	- 141	11.5K	- 74	56K
- 40	2.2K	- 58	12 K	- 158	59K
- 124	2.3K	- 142	12.5K	1006750 - 75	62K
- 41	2.4K	1006750 - 59	13K		
- 125	2.55K				
- 42	2.7K				
1006750 - 126	2.85K				

DASH NO.	OHMS ± 2%	DASH NO.	OHMS ± 2%
1006750 - 32	1 K	1006750 - 51	6.2 K
- 116	1.05K	- 135	6.5 K
- 33	1.1K	- 52	6.8 K
- 117	1.15K	- 136	7.15 K
- 34	1.2K	- 53	7.5K
- 118	1.25K	- 137	7.85K
- 35	1.3K	- 54	8.2K
- 119	1.4K	- 138	8.65K
- 36	1.5K	- 55	9.1K
- 120	1.55K	- 139	9.55K
- 37	1.6K	- 56	10 K
- 121	1.7K	- 140	10.5K
- 38	1.8K	- 57	11 K
- 122	1.9K	- 141	11.5K
- 39	2.0K	- 58	12 K
- 123	2.1K	- 142	12.5K
- 40	2.2K	- 59	13 K
- 124	2.3K	- 143	14 K
- 41	2.4K	- 60	15 K
- 125	2.55K	- 144	15.5K
- 42	2.7K	- 61	16 K
- 126	2.85K	- 145	17 K
- 43	3 K	- 62	18K
- 127	3.15K	- 146	19K
- 44	3.3K	- 63	20K
- 128	3.45K	- 147	21K
- 45	3.6K	- 64	22K
- 129	3.75K	- 148	23K
- 46	3.9K	- 65	24K
- 130	4.1K	- 149	25.5K
- 47	4.3K	- 66	27K
- 131	4.5K	- 150	28.5K
- 48	4.7K	- 67	30K
- 132	4.9K	- 151	31.5K
- 49	5.1K	1006750 - 68	33K
- 133	5.35K		
- 50	5.6K		
1006750 - 134	5.9K		

DASH NO.	OHMS ± 2%	DASH NO.	OHMS ± 2%
1006750 - 25	510	1006750 - 43	3 K
- 109	535	- 127	3.15 K
- 26	560	- 44	3.3 K
- 110	590	- 128	3.45 K
- 27	620	- 45	3.6 K
- 111	650	- 129	3.75K
- 28	680	- 46	3.9 K
- 112	715	- 130	4.1 K
- 29	750	- 47	4.3K
- 113	785	- 131	4.5K
- 30	820	- 48	4.7K
- 114	865	- 132	4.9K
- 31	910	- 49	5.1K
- 115	955	- 133	5.35K
- 32	1 K	- 50	5.6K
- 116	1.05 K	- 134	5.9K
- 33	1.1K	- 51	6.2K
- 117	1.15K	- 135	6.5K
- 34	1.2K	- 52	6.8K
- 118	1.25K	- 136	7.15K
- 35	1.3K	- 53	7.5K
- 119	1.4K	- 137	7.85K
- 36	1.5K	- 54	8.2K
- 120	1.55K	- 138	8.65K
- 37	1.6K	- 55	9.1 K
- 121	1.7K	- 139	9.55K
- 38	1.8K	- 56	10 K
- 122	1.9K	- 140	10.5K
- 39	2.0K	- 57	11 K
- 123	2.1K	- 141	11.5K
- 40	2.2K	1006750 - 58	12K
- 124	2.3K	1006750 - 8	0
- 41	2.4K		
- 125	2.55K		
- 42	2.7K		
1006750 - 126	2.85K		

REPLACES REV D WITH CHANGES

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG NO.
LIST OF MATERIALS			
INSTRUMENTATION LAB CLARKSBURG, MARYLAND DRAWN BY <i>J. W. White</i> DATE <i>1/21/64</i> CHECKED <i>J. J. B. [Signature]</i> APPROVAL <i>J. J. B. [Signature]</i>		MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC AGC CLOCK OSC MODULE B6 NASA DRAWING NO. 1006140	
HEAT TREATMENT FINAL FINISH APPLICATION		NASA APPROVAL <i>[Signature]</i> CODE IDENT NO. <i>D</i> SIZE <i>D</i> MIT APPROVAL <i>[Signature]</i> SCALE NONE WT	

MASTER

87654321

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A REQUEST FOR ASSISTANCE FROM THE GOVERNMENT, THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMISSIONS FROM THE GOVERNMENT AND FOR THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMISSIONS FROM THE GOVERNMENT AND FOR THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMISSIONS FROM THE GOVERNMENT.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
E	REDRAWN WITH CHANGES PER TDRR 05789	2/1/68	WLL
F	REVISED PER TDRR 07062	2/1/68	WLL
G	REVISED PER TDRR 08408	5/1/68	WLL
H	REVISED PER TDRR 12600	9/12/68	WLL

R3			
DASH NO.	OHMS ±2%	DASH NO.	OHMS ±2%
1006750 - 25	510	1006750 - 43	3 K
-109	535	-127	3.15K
-26	560	-44	3.3K
-110	590	-128	3.45K
-27	620	-45	3.6K
-111	650	-129	3.75K
-28	680	-46	3.9K
-112	715	-130	4.1K
-29	750	-47	4.3K
-113	785	-131	4.5K
-30	820	-48	4.7K
-114	865	-132	4.9K
-31	910	-49	5.1K
-115	955	-133	5.35K
-32	1 K	-50	5.6K
-116	1.05K	-134	5.9K
-33	1.1K	-51	6.2K
-117	1.15K	-135	6.5K
-34	1.2K	-52	6.8K
-118	1.25K	-136	7.15K
-35	1.3K	-53	7.5K
-119	1.4K	-137	7.85K
-36	1.5K	-54	8.2K
-120	1.55K	-138	8.65K
-37	1.6K	-55	9.1K
-121	1.7K	-139	9.55K
-38	1.8K	-56	10K
-122	1.9K	-140	10.5K
-39	2.0K	-57	11K
-123	2.1K	-141	11.5K
-40	2.2K	-58	12K
-124	2.3K	-142	12.5K
-41	2.4K	1006750 - 59	13K
-125	2.55K		
-42	2.7K		
1006750 - 126	2.85K		

R6			
DASH NO.	OHMS ±2%	DASH NO.	OHMS ±2%
1006750 - 32	1 K	1006750 - 51	6.2 K
-116	1.05K	-135	6.5 K
-33	1.1K	-52	6.8 K
-117	1.15K	-136	7.15 K
-34	1.2K	-53	7.5 K
-118	1.25K	-137	7.85K
-35	1.3K	-54	8.2K
-119	1.4K	-138	8.65K
-36	1.5K	-55	9.1K
-120	1.55K	-139	9.55K
-37	1.6K	-56	10 K
-121	1.7K	-140	10.5K
-38	1.8K	-57	11 K
-122	1.9K	-141	11.5K
-39	2.0K	-58	12 K
-123	2.1K	-142	12.5K
-40	2.2K	-59	13 K
-124	2.3K	-143	14 K
-41	2.4K	-60	15 K
-125	2.55K	-144	15.5K
-42	2.7K	-61	16 K
-126	2.85K	-145	17 K
-43	3 K	-62	18 K
-127	3.15K	-146	19 K
-44	3.3K	-63	20 K
-128	3.45K	-147	21 K
-45	3.6K	-64	22 K
-129	3.75K	-148	23 K
-46	3.9K	-65	24 K
-130	4.1K	-149	25.5K
-47	4.3K	-66	27 K
-131	4.5K	-150	28.5K
-48	4.7K	-67	30 K
-132	4.9K	-151	31.5K
-49	5.1K	1006750 - 68	33 K
-133	5.35K		
-50	5.6K		
1006750 - 134	5.9K		

R8			
DASH NO.	OHMS ±2%	DASH NO.	OHMS ±2%
1006750 - 25	510	1006750 - 43	3 K
-109	535	-127	3.15 K
-26	560	-44	3.3 K
-110	590	-128	3.45 K
-27	620	-45	3.6 K
-111	650	-129	3.75 K
-28	680	-46	3.9 K
-112	715	-130	4.1 K
-29	750	-47	4.3 K
-113	785	-131	4.5 K
-30	820	-48	4.7 K
-114	865	-132	4.9 K
-31	910	-49	5.1 K
-115	955	-133	5.35 K
-32	1 K	-50	5.6 K
-116	1.05 K	-134	5.9 K
-33	1.1 K	-51	6.2 K
-117	1.15 K	-135	6.5 K
-34	1.2 K	-52	6.8 K
-118	1.25 K	-136	7.15 K
-35	1.3 K	-53	7.5 K
-119	1.4 K	-137	7.85 K
-36	1.5 K	-54	8.2 K
-120	1.55 K	-138	8.65 K
-37	1.6 K	-55	9.1 K
-121	1.7 K	-139	9.55 K
-38	1.8 K	-56	10 K
-122	1.9 K	-140	10.5 K
-39	2.0 K	-57	11 K
-123	2.1 K	-141	11.5 K
-40	2.2 K	1006750 - 58	12 K
-124	2.3 K	1006757 - 8	0
-41	2.4 K		
-125	2.55 K		
-42	2.7 K		
1006750 - 126	2.85 K		

Ⓔ REPLACES REV D WITH CHANGES

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN BY <i>F. W. W. L.</i> DATE <i>12/1/67</i>		SCHEMATIC AGC CLOCK OSC MODULE B6	
CHECKED BY <i>E. J. B. J.</i>		NASA APPROVAL <i>[Signature]</i>	
DO NOT SCALE THIS DRAWING		CODE IDENT NO. <i>D</i> SIZE <i>1006140</i>	
HEAT TREATMENT		SCALE NONE WT	
FINAL FINISH		SHEET 2 OF 3	
APPLICATION			

NOTICE - UNITED GOVERNMENT OWNERSHIP, SPECIFICATION, OR OTHER DATA
 ARE USED FOR ALL PURPOSES OTHER THAN IN CONNECTION WITH A DEFINITE
 LICENSED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT
 TAKES NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT
 THE GOVERNMENT MAY HAVE FORWARDED, FURNISHED OR
 MADE AVAILABLE SUCH DATA DOES NOT CONSTITUTE AN ENDORSEMENT OR
 MAY BE MISUSED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER
 LICENSED THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEY
 ANY RIGHTS OR PRIVILEGES, OR ANY OTHER RIGHTS OR SOLE
 ANY MANNER THAT MAY BE DEEMED TO BE IN THE INTEREST OF THE UNITED STATES GOVERNMENT.

R 31	
DASH NO.	OHMS
1006750 - 56	10 K
- 140	10.5 K
- 57	11 K
- 141	11.5 K
- 58	12 K
- 142	12.5 K
- 59	13 K
- 143	14 K
- 60	15 K
- 144	15.5 K
- 61	16 K
- 145	17 K
- 62	18 K
- 146	19 K
- 63	20 K
- 147	21 K
- 64	22 K
- 148	23 K
- 65	24 K
- 149	25.5 K
- 66	27 K
- 150	28.5 K
- 67	30 K
- 151	31.5 K
- 68	33 K
- 152	34.5 K
- 69	36 K
- 153	37.5 K
- 70	39 K
- 154	41 K
1006750 - 71	43 K

R I		
DASH NO.		OHMS ² 2
1006750-52		6.8 K
	↑	-136 7.15 K
		-53 7.5 K
		-137 7.85 K
		-54 8.2 K
		-138 8.65 K
		-55 9.1 K
		-139 9.55 K
		-56 10 K
		-140 10.5 K
		-57 11 K
		-141 11.5 K
		-58 12 K
		-142 12.5 K
		-59 13 K
		-143 14 K
		-60 15 K
		-144 15.5 K
		-61 16 K
		-145 17 K
		-62 18 K
		-146 19 K
		-63 20 K
	↓	-147 21 K
1006750-64		22 K

R 2					
DASH NO.		OHMS ±2%	DASH NO.		OHMS ±2%
1006750	- 56	10 K	1006750	- 157	53.5 K
↑	- 140	10.5 K	↑	- 74	56 K
↑	- 57	11 K		- 158	59 K
↑	- 141	11.5 K		- 75	62 K
	- 58	12 K		- 159	65 K
	- 142	12.5 K		- 76	68 K
	- 59	13 K		- 160	71.5 K
	- 143	14 K		- 77	75 K
	- 60	15 K		- 161	78.5 K
	- 144	15.5 K		- 78	82 K
	- 61	16 K		- 162	86.5 K
	- 145	17 K		- 79	91 K
	- 62	18 K		- 163	95.5 K
	- 146	19 K		- 80	100K
	- 63	20 K		- 164	105 K
	- 147	21 K		- 81	110 K
	- 64	22 K		- 165	115 K
	- 148	23 K		- 82	120 K
	- 65	24 K		- 166	125 K
	- 149	25.5 K		- 83	130 K
	- 66	27 K	↑	- 167	140 K
	- 150	28.5 K	1006750	- 84	150 K
	- 67	30 K			
	- 151	31.5			
	- 68	33			
	- 152	34.5			
	- 69	36			
	- 153	37.5			
	- 70	39			
	- 154	41			
	- 71	43			
	- 155	45			
	- 72	47			
↑	- 156	49			
1006750	- 73	51			

RT 2	
DASH NO.	OHMS±%
1006712 - 1	500
1006712 - 2	1000
1006712 - 3	5000

R 17	
DASH NO	OHMS ±2%
1006750-55	9.1 K
↑ -56	10 K
-57	11 K
-58	12 K
↓ -59	13 K
1006750-60	14 K

C 2		VALUE
DASH NO.	UUF	
1006793 - 37	10	
- 38	11	
- 39	12	
- 40	13	
- 41	15	
- 42	16	
- 43	18	
- 44	20	
- 45	22	
- 46	24	
- 47	27	
- 48	30	
- 49	33	
- 50	36	
- 51	39	
- 52	43	
- 53	47	
- 54	51	
- 55	56	
- 56	62	
- 57	68	
- 58	75	
- 59	82	
- 60	91	
1006793 - 61	100	

Ⓔ THIS SHEET ADDED

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
LIST OF MATERIALS							
		M I T INSTRUMENTATION LAB CAMBRIDGE, MASS DATE <u>2/17/64</u> CHECKED <u>[Signature]</u>		MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC AGC CLOCK OSC MODULE B6			
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS \pm DECIMALS \pm ANGLES \pm DO NOT SCALE THIS DRAWING MATERIAL		NASA APPROVAL <u>[Signature]</u> APPROVAL <u>[Signature]</u> CODE IDENT. NO. <u> </u> SIZE <u>D</u> NASA DRAWING NO. <u>1006140</u>			
		HEAT TREATMENT FINAL FINISH		MIT APPROVAL <u>[Signature]</u> SCALE NONE WT <u> </u> SHEET 3 OF 3			
NEXT ASSY		USED ON		APPLICATION			

NOTICE - WHEN APPROVED DRAWING SPECIFICATIONS OR OTHER DATA ARE USED AND ANY PERSON OTHER THAN THE CONTRACTOR WITH A REPUTABLE FIDELITY AND INTEGRITY IS RESPONSIBLE FOR THE ACCURACY OF THE DATA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DATA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DATA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE DATA.

R 31	
DASH NO.	OHMS ± 2%
1006750 - 56	10 K
↑ -140	10.5 K
↑ -57	11 K
↑ -141	11.5 K
↑ -58	12 K
↑ -142	12.5 K
↑ -59	13 K
↑ -143	14 K
↑ -60	15 K
↑ -144	15.5 K
↑ -61	16 K
↑ -145	17 K
↑ -62	18 K
↑ -146	19 K
↑ -63	20 K
↑ -147	21 K
↑ -64	22 K
↑ -148	23 K
↑ -65	24 K
↑ -149	25.5 K
↑ -66	27 K
↑ -150	28.5 K
↑ -67	30 K
↑ -151	31.5 K
↑ -68	33 K
↑ -152	34.5 K
↑ -69	36 K
↑ -153	37.5 K
↑ -70	39 K
↑ -154	41 K
1006750 - 71	43 K

R 1	
DASH NO.	OHMS ± 2%
1006750 - 52	6.8 K
↑ -136	7.15 K
↑ -53	7.5 K
↑ -137	7.85 K
↑ -54	8.2 K
↑ -138	8.65 K
↑ -55	9.1 K
↑ -139	9.55 K
↑ -56	10 K
↑ -140	10.5 K
↑ -57	11 K
↑ -141	11.5 K
↑ -58	12 K
↑ -142	12.5 K
↑ -59	13 K
↑ -143	14 K
↑ -60	15 K
↑ -144	15.5 K
↑ -61	16 K
↑ -145	17 K
↑ -62	18 K
↑ -146	19 K
↑ -63	20 K
↑ -147	21 K
↑ -64	22 K

R 2			
DASH NO.		OHMS ± 2%	
1006750 - 56	10 K	1006750 - 157	53.5 K
↑ -140	10.5 K	↑ -74	56 K
↑ -57	11 K	↑ -158	59 K
↑ -141	11.5 K	↑ -75	62 K
↑ -58	12 K	↑ -159	65 K
↑ -142	12.5 K	↑ -76	68 K
↑ -59	13 K	↑ -160	71.5 K
↑ -143	14 K	↑ -77	75 K
↑ -60	15 K	↑ -161	78.5 K
↑ -144	15.5 K	↑ -78	82 K
↑ -61	16 K	↑ -162	86.5 K
↑ -145	17 K	↑ -79	91 K
↑ -62	18 K	↑ -163	95.5 K
↑ -146	19 K	↑ -80	100 K
↑ -63	20 K	↑ -164	105 K
↑ -147	21 K	↑ -81	110 K
↑ -64	22 K	↑ -165	115 K
↑ -148	23 K	↑ -82	120 K
↑ -65	24 K	↑ -166	125 K
↑ -149	25.5 K	↑ -83	130 K
↑ -66	27 K	↑ -167	140 K
↑ -150	28.5 K	1006750 - 84	150 K
↑ -67	30 K		
↑ -151	31.5 K		
↑ -68	33 K		
↑ -152	34.5 K		
↑ -69	36 K		
↑ -153	37.5 K		
↑ -70	39 K		
↑ -154	41 K		
↑ -71	43 K		
↑ -155	45 K		
↑ -72	47 K		
↑ -156	49 K		
↑ -73	51 K		

RT 2	
DASH NO.	OHMS ± 2%
1006712 - 1	500
1006712 - 2	1000
1006712 - 3	5000

R 17	
DASH NO.	OHMS ± 2%
1006750 - 55	9.1 K
↑ -56	10 K
↑ -57	11 K
↑ -58	12 K
↑ -59	13 K
1006750 - 60	14 K

C 2	
DASH NO.	VALUE UUF
1006793 - 37	10
↑ -38	11
↑ -39	12
↑ -40	13
↑ -41	15
↑ -42	16
↑ -43	18
↑ -44	20
↑ -45	22
↑ -46	24
↑ -47	27
↑ -48	30
↑ -49	33
↑ -50	36
↑ -51	39
↑ -52	43
↑ -53	47
↑ -54	51
↑ -55	56
↑ -56	62
↑ -57	68
↑ -58	75
↑ -59	82
↑ -60	91
1006793 - 61	100

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
E	THIS SHEET ADDED PER TDRR 05789	12/14/64	W. H. H.
F	REVISED PER TDRR 07062	12/14/64	W. H. H.
G	REVISED PER TDRR 08408	5/7/65	W. H. H.

THIS SHEET ADDED

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG NO.
LIST OF MATERIALS			
M.I.T. INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN BY: <i>[Signature]</i> DATE: <i>12/14/64</i>		SCHEMATIC AGC CLOCK OSC MODULE B6	
CHECKED BY: <i>[Signature]</i>		NASA DRAWING NO. 1006140	
APPROVAL BY: <i>[Signature]</i>		SCALE: NONE	
NEXT ASSY		USED ON	
APPLICATION		FINAL FINISH	

NOTICE - UNDER GOVERNMENT PRINTING SPECIFICATIONS OR OTHER DATA
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DECLARING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR COMPANY
OR ANY OTHER PERSON OR CORPORATION, OR COMPANY, OR COMPANY, OR COMPANY
PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREOF.

R 31	
DASH NO.	OHMS ± 2%
1006750 - 56	10 K
- 140	10.5 K
- 57	11 K
- 141	11.5 K
- 58	12 K
- 142	12.5 K
- 59	13 K
- 143	14 K
- 60	15 K
- 144	15.5 K
- 61	16 K
- 145	17 K
- 62	18 K
- 146	19 K
- 63	20 K
- 147	21 K
- 64	22 K
- 148	23 K
- 65	24 K
- 149	25.5 K
- 66	27 K
- 150	28.5 K
- 67	30 K
- 151	31.5 K
- 68	33 K
- 152	34.5 K
- 69	36 K
- 153	37.5 K
- 70	39 K
- 154	41 K
1006750 - 57	43 K

R I		
DASH NO.		OHMS ^{±22}
1006750 - 52		6.8 K
	↑ -136	7.15 K
	- 53	7.5 K
	-137	7.85K
	- 54	8.2 K
	-138	8.65K
	- 55	9.1 K
	-139	9.55K
	- 56	10 K
	-140	10.5K
	- 57	11 K
	-141	11.5 K
	-58	12 K
	-142	12.5 K
	- 59	13 K
	-143	14 K
	- 60	15 K
	-144	15.5 K
	- 61	16 K
	-145	17 K
	- 62	18 K
	-146	19 K
	- 63	20 K
	-147	21 K
1006750 - 64	↓	22 K

R 2			
DASH NO.		OHMS 127	DASH NO. OHMS 127
1006750 - 56	10 K	1006750 - 157	53.5 K
↑ - 140	10.5 K	↑ - 74	56 K
- 57	11 K	- 158	59 K
- 141	11.5 K	- 75	62 K
- 58	12 K	- 159	65 K
- 142	12.5 K	- 76	68 K
- 59	13 K	- 160	71.5 K
- 143	14 K	- 77	75 K
- 60	15 K	- 161	78.5 K
- 144	15.5 K	- 78	82 K
- 61	16 K	- 162	86.5 K
- 145	17 K	- 79	91 K
- 62	18 K	- 163	95.5 K
- 146	19 K	- 80	100 K
- 63	20 K	- 164	105 K
- 147	21 K	- 81	110 K
- 64	22 K	- 165	115 K
- 148	23 K	- 82	120 K
- 65	24 K	- 166	125 K
- 149	25.5 K	- 83	130 K
- 66	27 K	↓ - 167	140 K
- 150	28.5 K	1006750 - 84	150 K
- 67	30 K		
- 151	31.5 K		
- 68	33 K		
- 152	34.5 K		
- 69	36 K		
- 153	37.5 K		
- 70	39 K		
- 154	41 K		
- 71	43 K		
- 155	45 K		
- 72	47 K		
↓ - 156	49 K		
1006750 - 73	51 K		

RT 2	
DASH NO.	OHMS±%
1006712 - 1	500
1006712 - 2	1000
1006712 - 3	5000

R 17	
DASH NO	OHMS ± 2%
1006750 - 55	9.1 K
↑ - 56	10 K
- 57	11 K
↓ - 58	12 K
- 59	13 K
1006750 - 60	14 K

C 2	
DASH NO.	VALUE UUF
1006793 -37	10
-38	11
-39	12
-40	13
-41	15
-42	16
-43	18
-44	20
-45	22
-46	24
-47	27
-48	30
-49	33
-50	36
-51	39
-52	43
-53	47
-54	51
-55	56
-56	62
-57	68
-58	75
-59	82
-60	91
1006793 -61	100

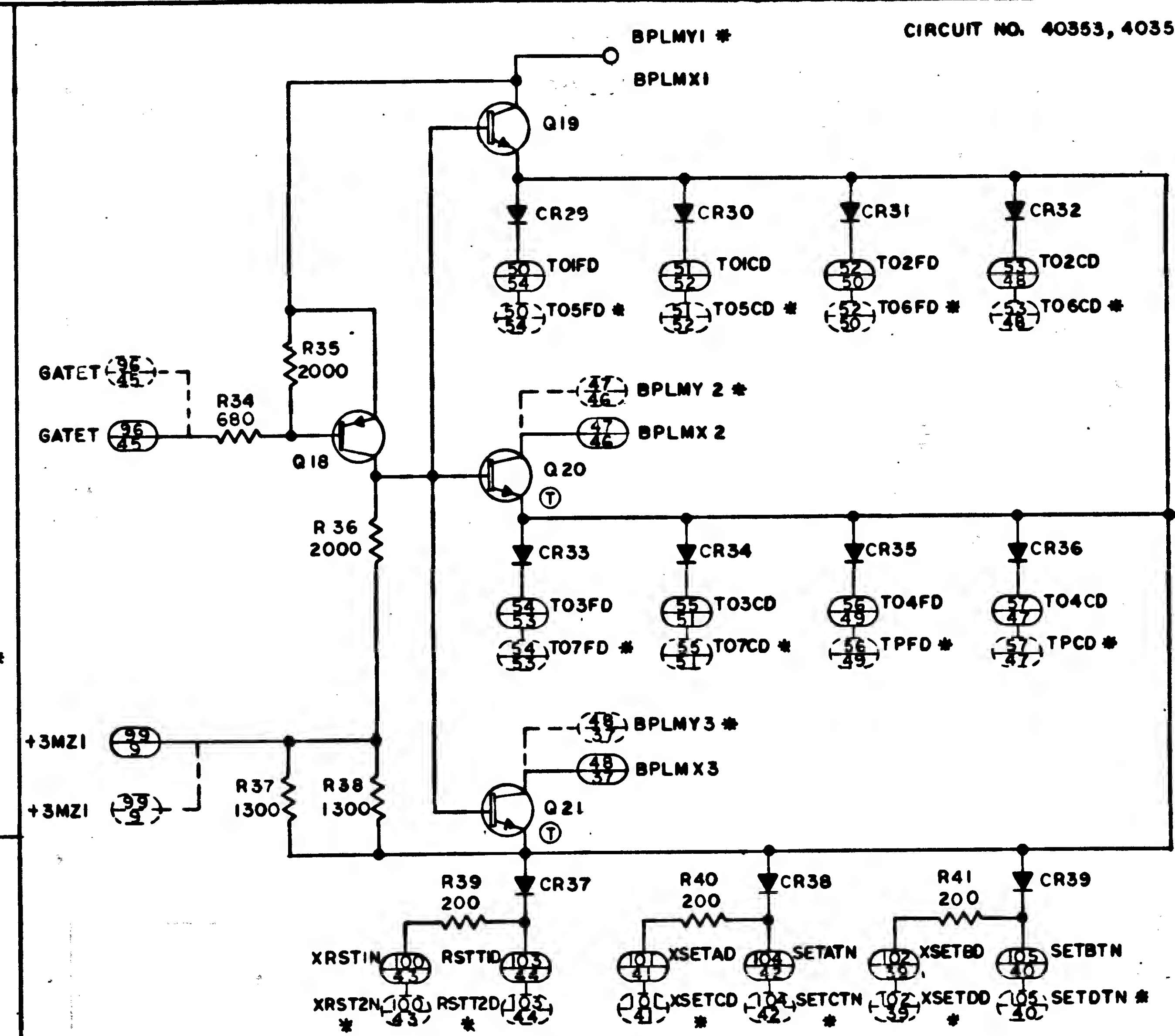
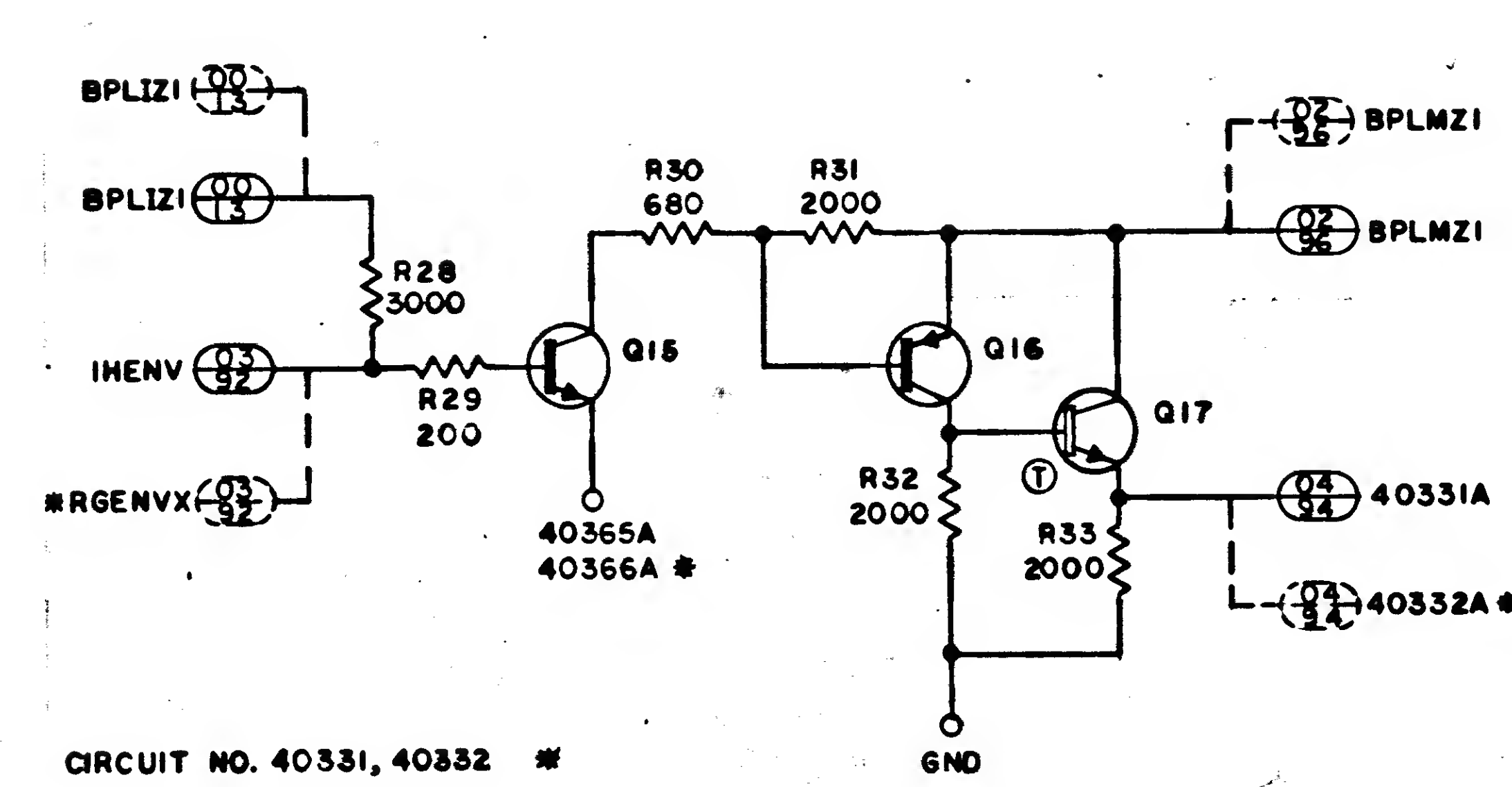
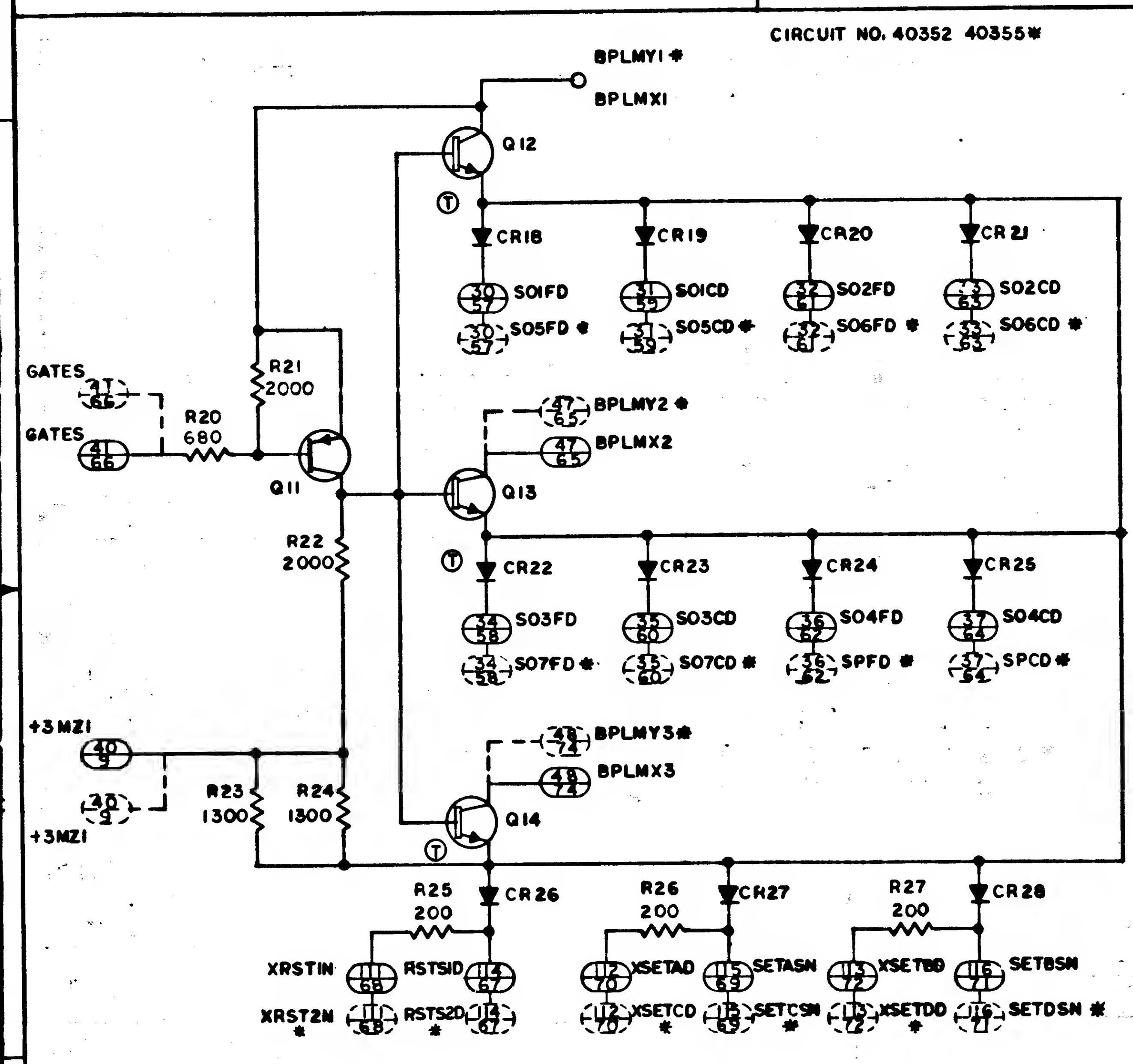
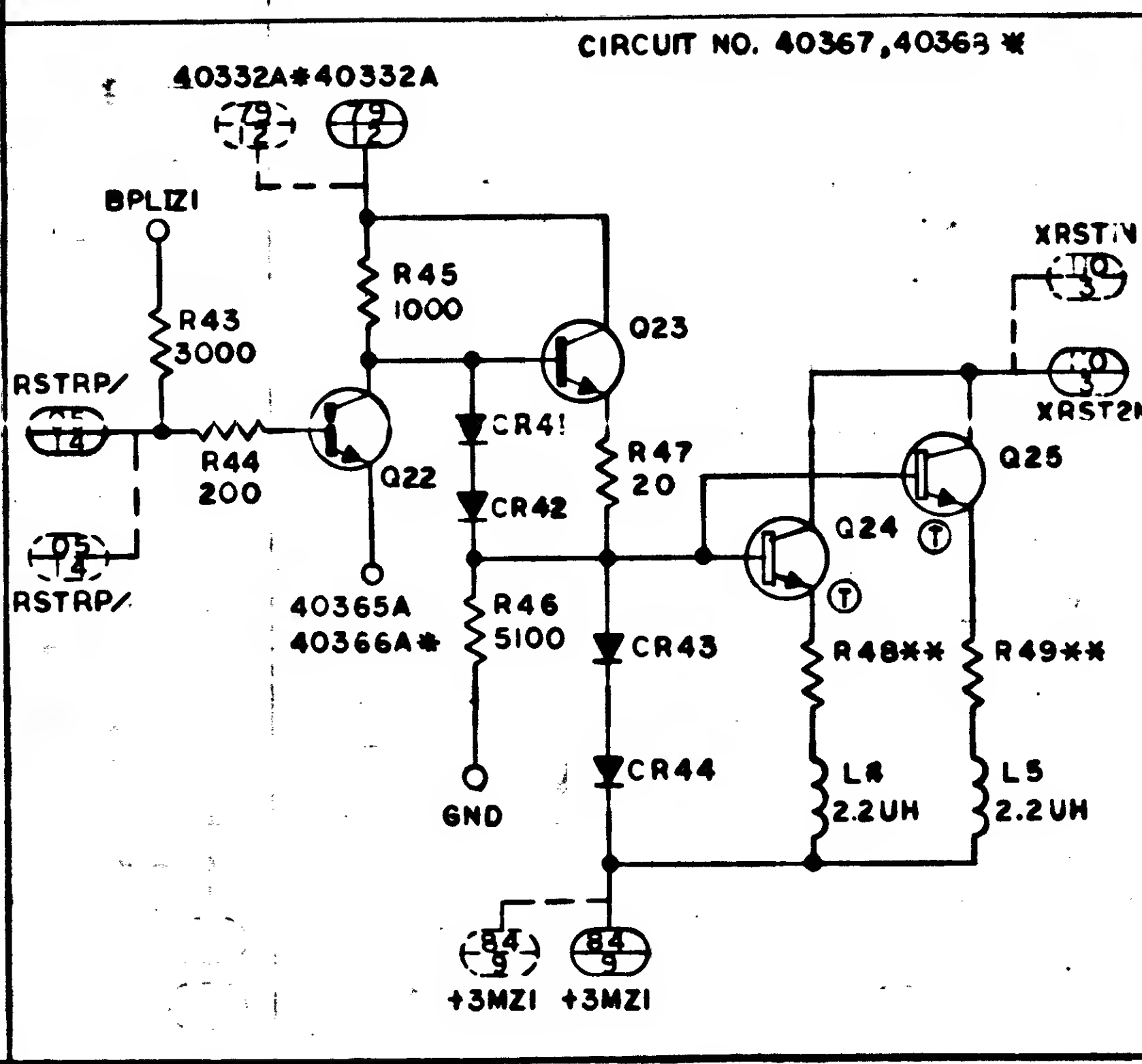
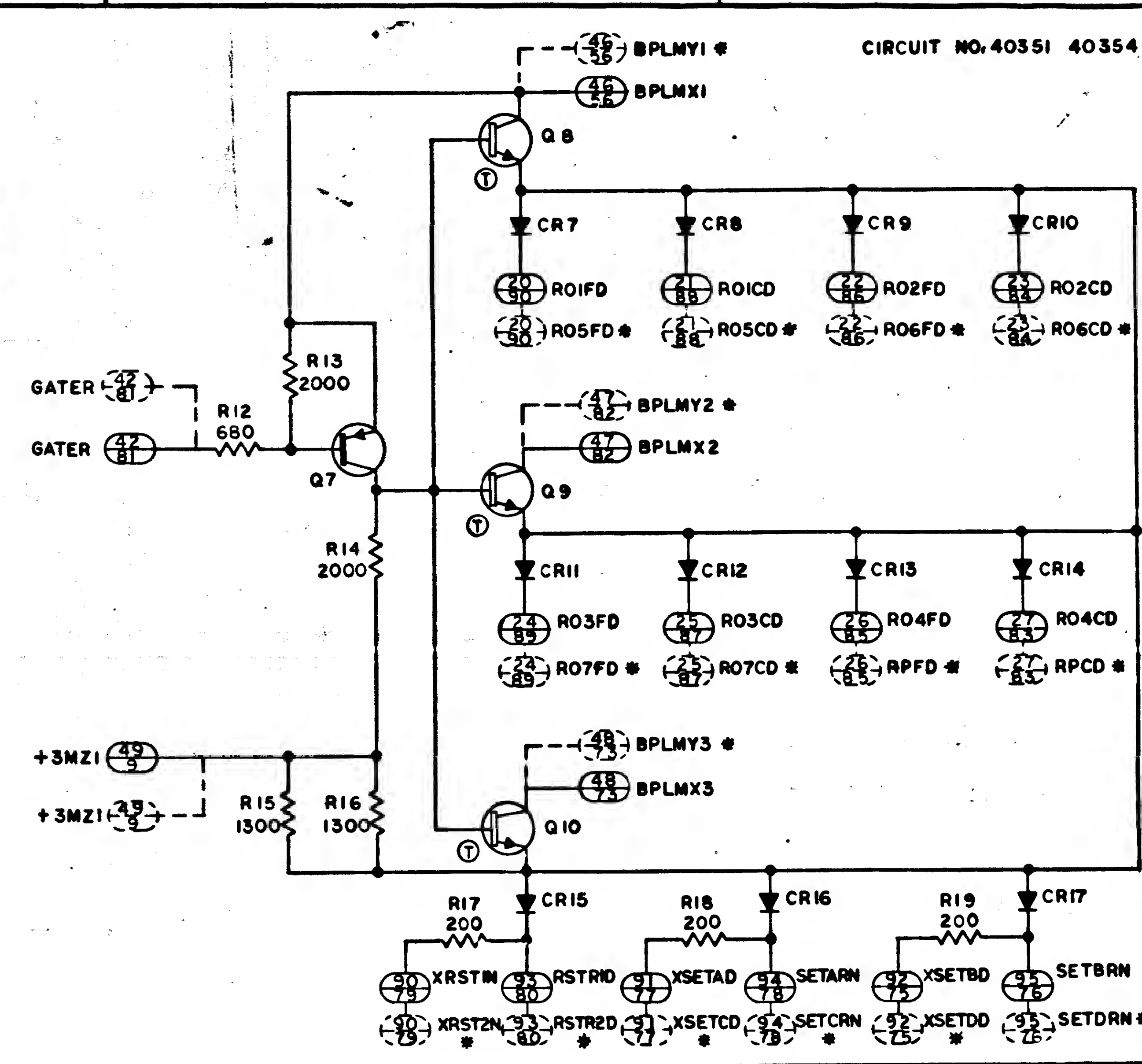
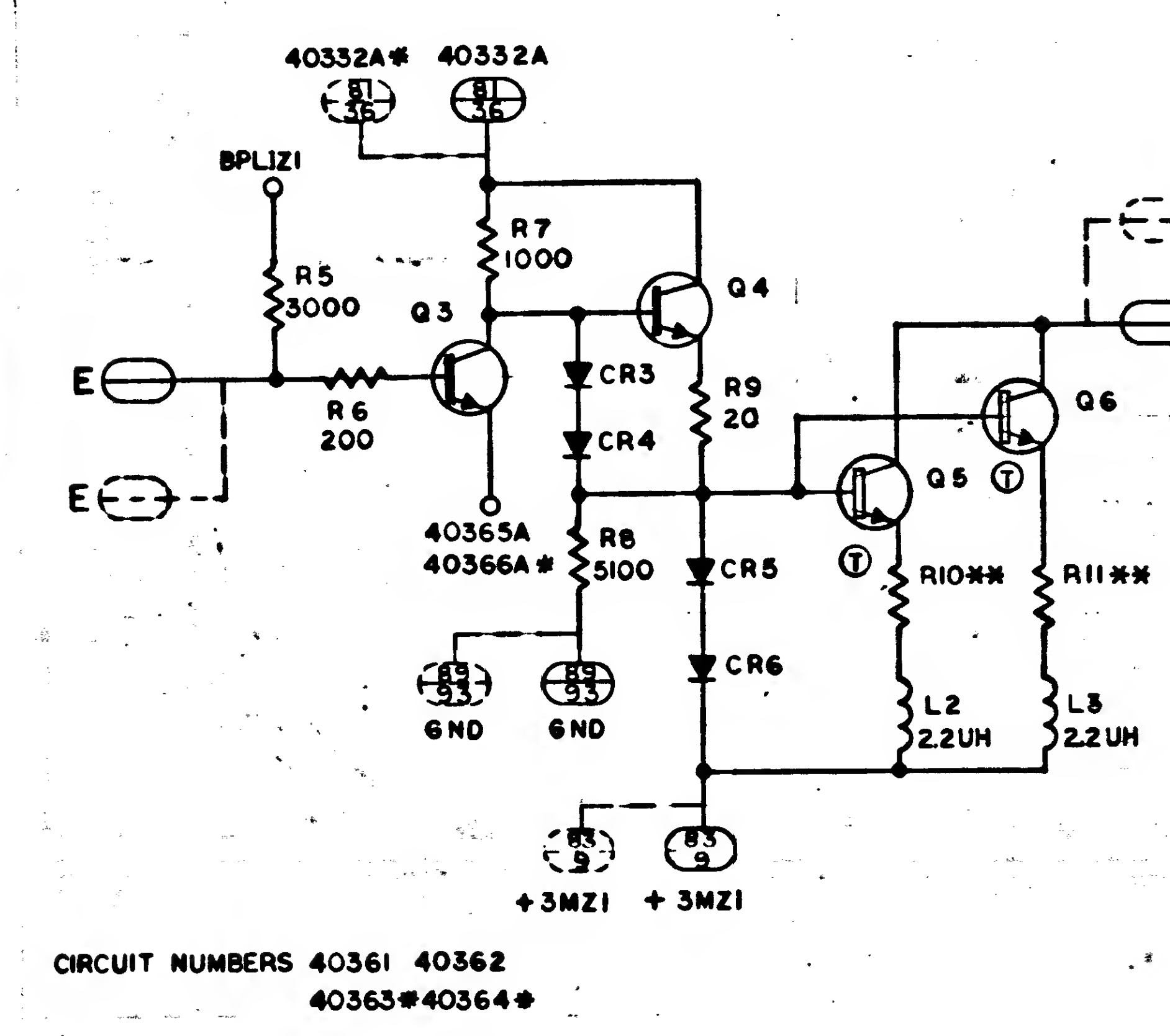
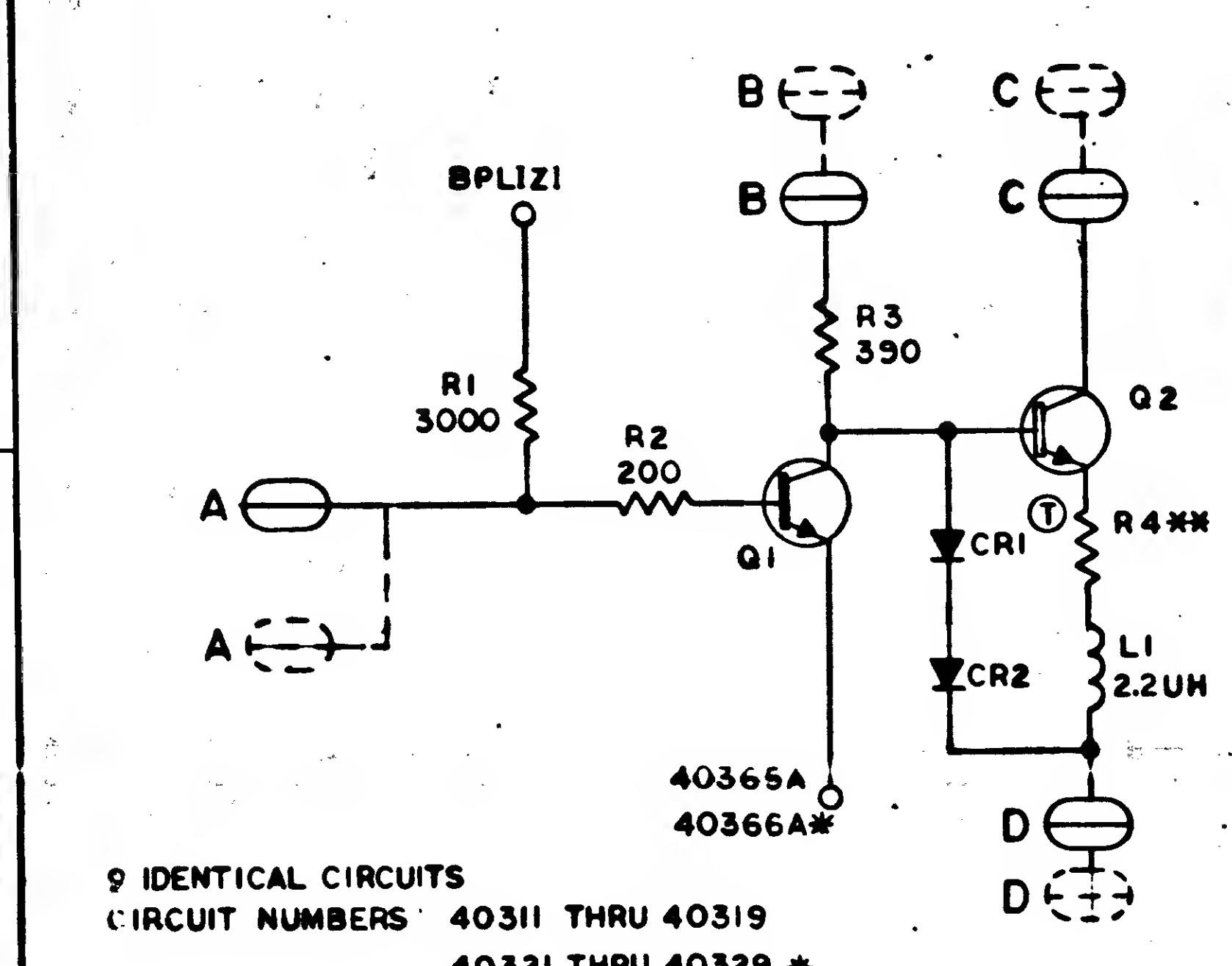
(E) THIS SHEET ADDED

REVISONS				
SVN	DESCRIPTION	DATE	APPROVAL	
E	THIS SHEET ADDED PER DTRR 05789	2/24/64	DR	
F	REVISED PER DTRR DRAWING CHK CLR 07062	2/26/64	DR	
G	REVISED PER DTRR 081408 DRAWING CHK QRB 20	5/1/64	DR	
H	REVISED PER DTRR 12600 DRAWING CHK CLR RTM	9/23/64	DR	

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIN NO.	
LIST OF MATERIALS							
		M I T INSTRUMENTATION LAB CAMDEN, N.J.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
		Dwg No. <u>4E-1114</u> DATE <u>10/16/64</u> CHECKED <u>[Signature]</u> APPROVAL <u>[Signature]</u> APPROVED <u>[Signature]</u> 10/20/64		SCHEMATIC AGC CLOCK OSC MODULE B6			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ± DO NOT SCALE DRAWING MATERIAL		NASA APPROVAL <u>[Signature]</u> 10/21/64		CODE IDENT NO. <u> </u> SIZE D		NASA DRAWING NO. 1006140	
HEAT TREATMENT NEXT ASSY USED ON		MIT APPROVAL <u>[Signature]</u> 10/21/64		SCALE NONE WT		SHEET 3 OF 3	
APPLICATION FINAL FINISH							

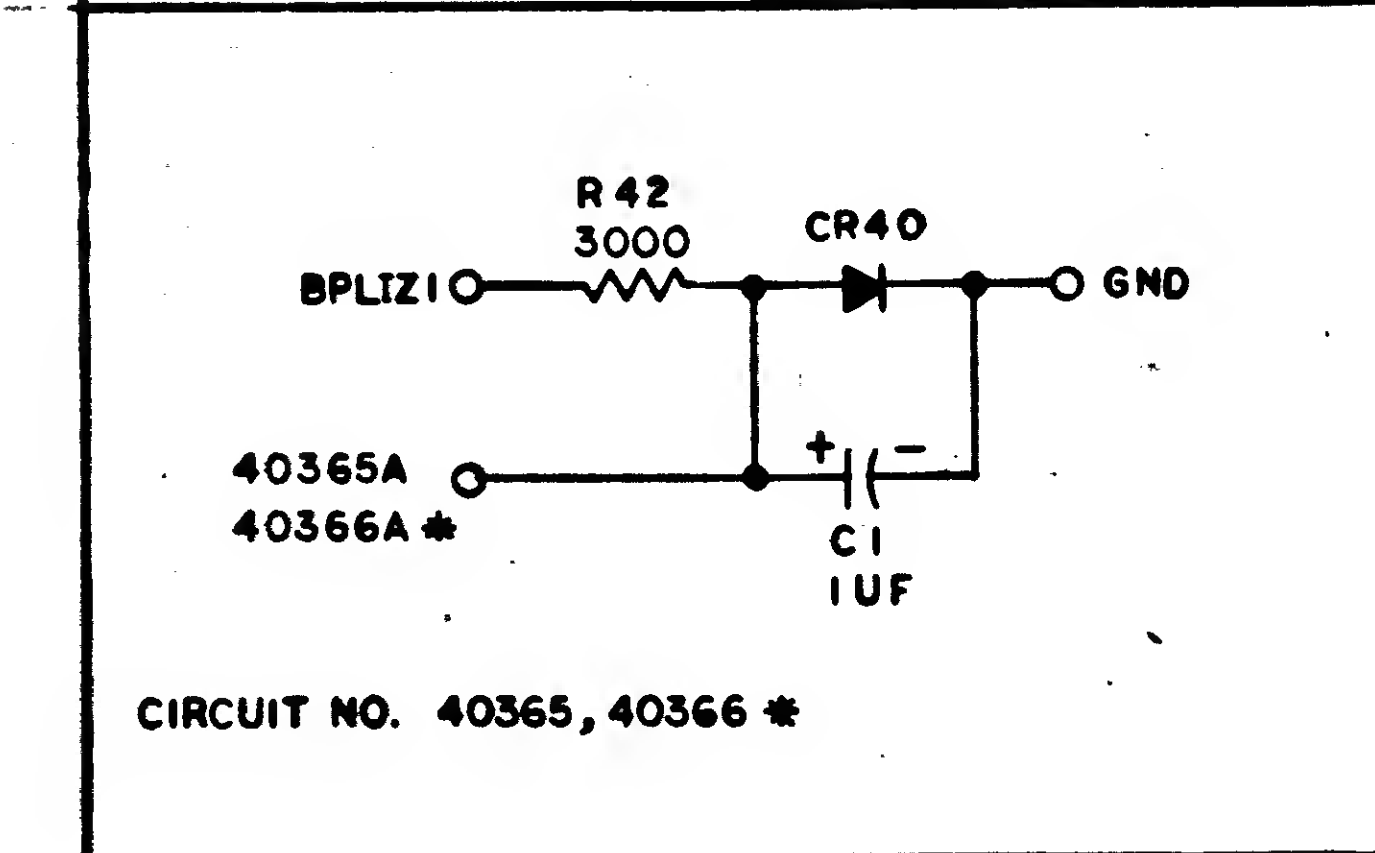
1006147

REVISIONS 0360
A REVISED PER TDOR 05562



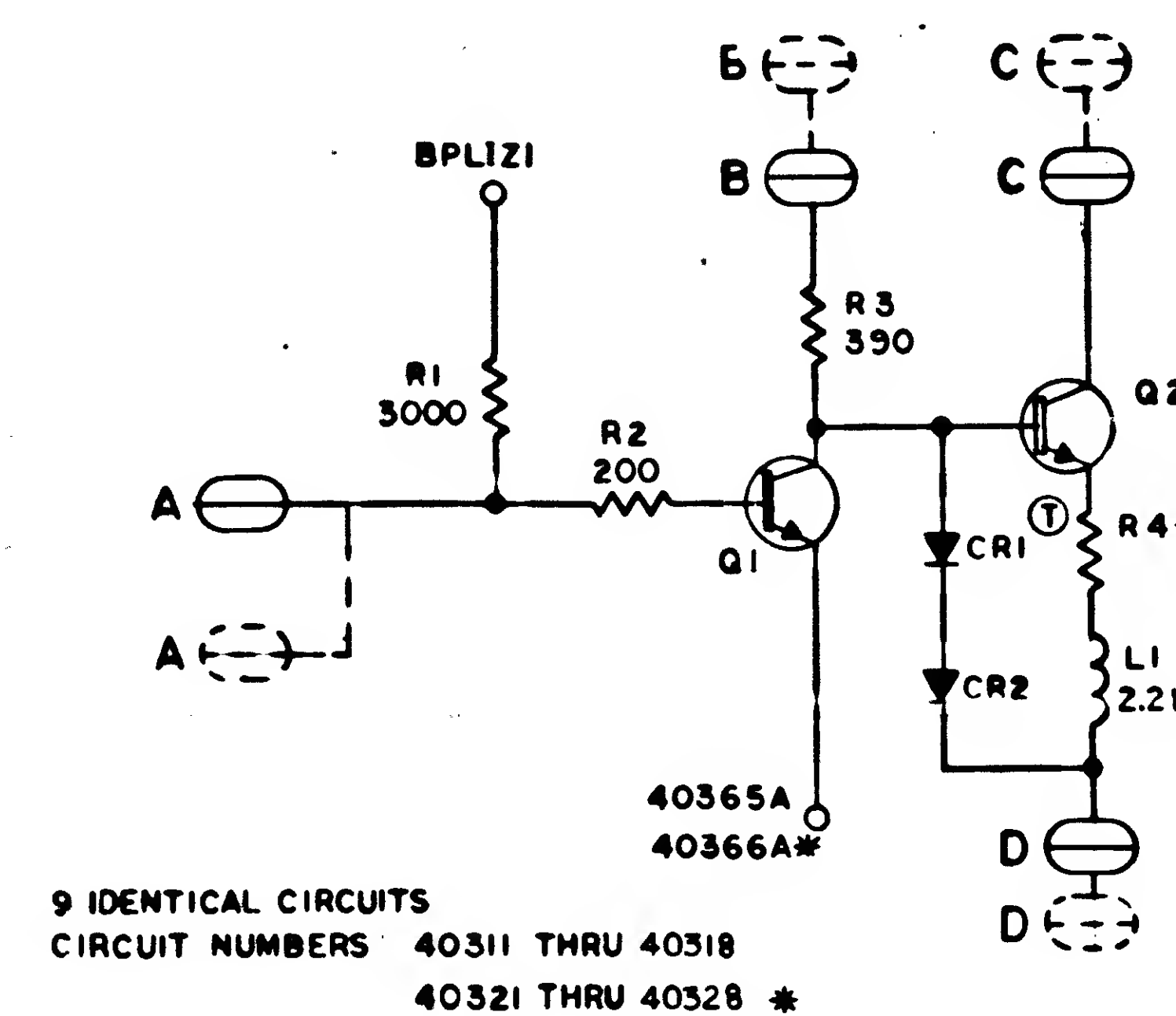
COMPONENT PREFIX (ASSY)	CIRCUIT NO.	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5
1	40311	IL01	10	140	40331A	70	99	XO1FN	119	139	+3MX1	60	133			
2	40312	IL01	11	137				XO1CN	118	138						
3	40313	IL02	12	130				XO2FN	117	129						
4	40314	IL02	13	127				XO2CN	116	128						
5	40315	IL03	14	118				XO3FN	117	117	+3MX2	64	111			
6	40316	IL03	15	115				XO3CN	116	116						
7	40317	IL04	16	108				XO4FN	117	107						
8	40318	IL04	17	105	40331A	70	99	XO4CN	116	106						
9	40319	N.C.	18	102	N.C.	78	100	N.C.	06	95	N.C.	68	97			
1	40321 *	IL05	10	140	40331A	70	99	XO5FN	119	139	+3MY1	60	133			
2	40322 *	IL05	11	137				XO5CN	118	138						
3	40323 *	IL06	12	130				XO6FN	117	129						
4	40324 *	IL06	13	127				XO6CN	116	128						
5	40325 *	IL07	14	118				XO7FN	117	117	+3MY2	64	111			
6	40326 *	IL07	15	115				XO7CN	116	116						
7	40327 *	ILP	16	108				XPFN	08	107						
8	40328 *	ILP	17	105	40331A	70	99	XPCN	07	106						
9	40329 *	N.C.	18	102	N.C.	78	100	N.C.	06	95	N.C.	68	97			
1	40361							SETA	85	38	XSETAD	75	25			
2	40362							SETB	82	17	XSETBD	72	30			
1	40363 *							SETC	85	38	XSETCD	75	25			
2	40364 *							SETD	82	17	XSETDD	72	30			

- NOTES:
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 - UNLESS OTHERWISE SPECIFIED, RESISTOR VALUES ARE IN OHMS
 - CIRCUIT NUMBERS, PIN NUMBERS AND SIGNAL NAMES ON THE SCHEMATIC FOR MODULE NO. B33 ARE INDICATED BY AN ASTERISK (*) OR BY DOTTED BALLOONS (---) AND ALL OTHERS INDICATE MODULE NO. B32
 - ** TO BE SELECTED AT ELECTRICAL TEST

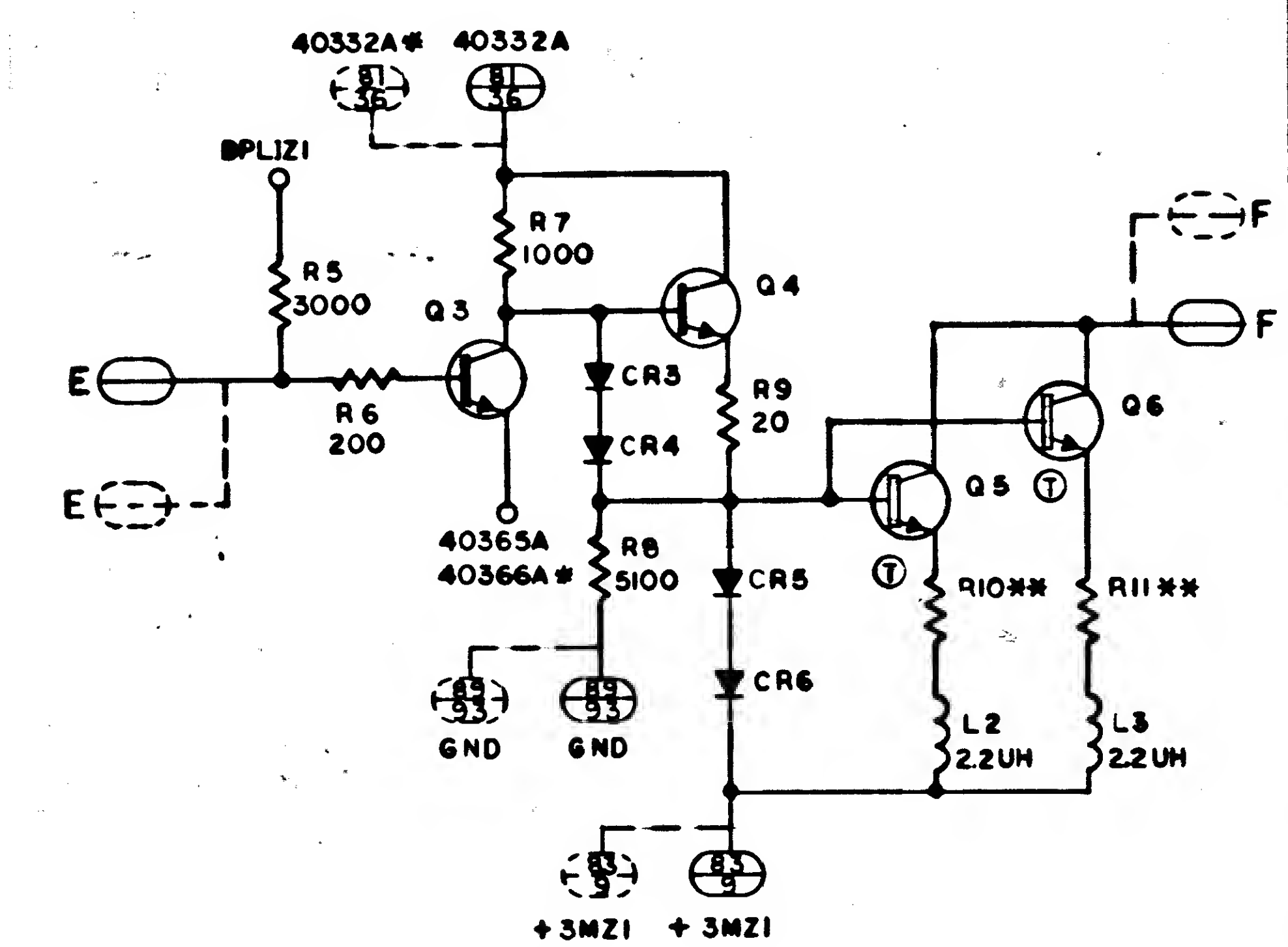


MASTER

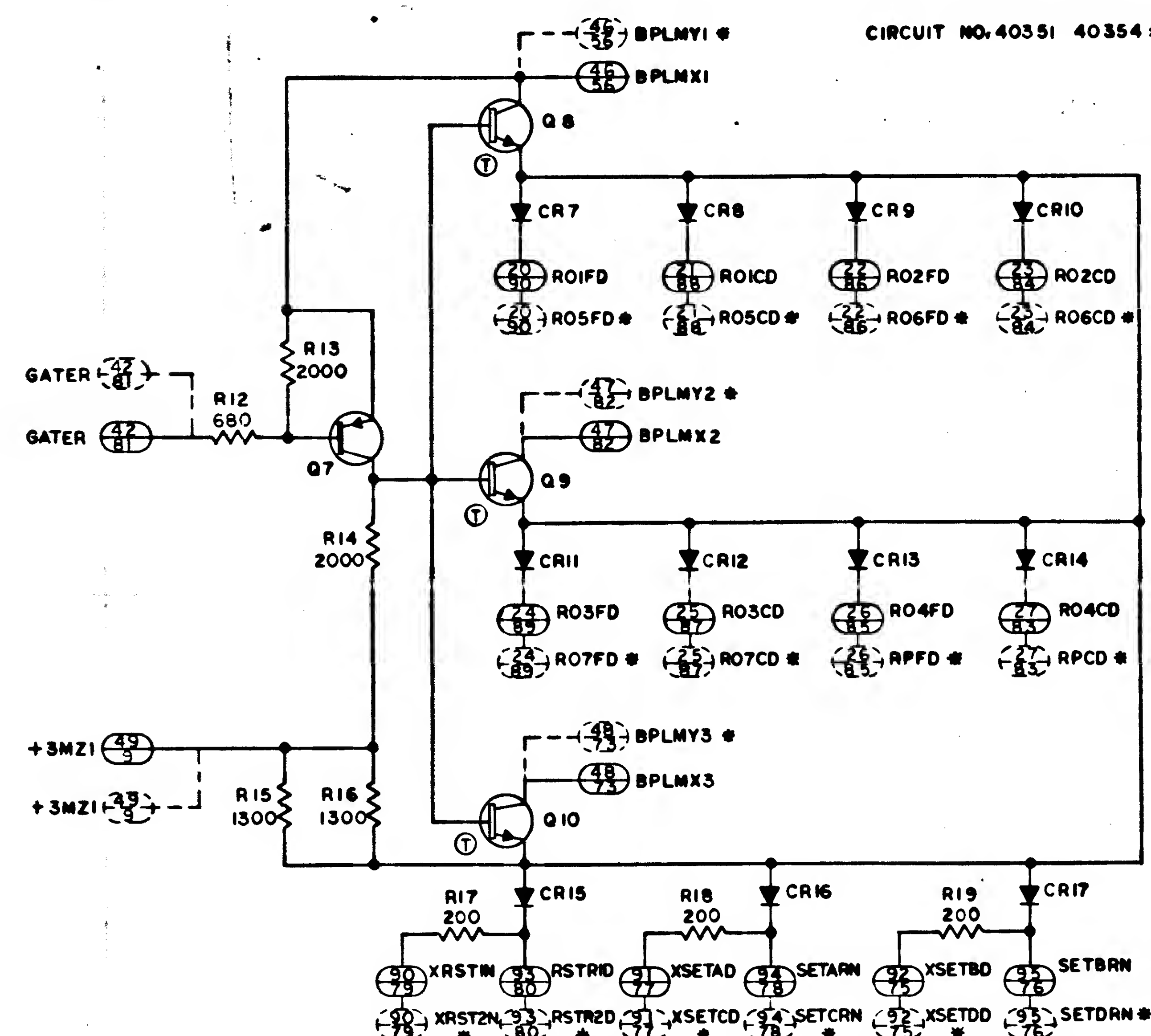
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	PIN NO.
LIST OF MATERIALS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL HEAT TREATMENT NEXT ASSY USED ON APPLICATION			
INSTRUMENTATION LAB DRAWN: 0360 DATE: 05/63 CHECKED: 0360 DATE: 05/63 APPROVAL: 0360 DATE: 05/63 NASA APPROVAL: 0360 DATE: 05/63 MET APPROVAL: 0360 DATE: 05/63			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC, ROPE DRIVER MODULE B32-B33 CODE BENT NO. 1006147 SHEET 1 OF 2			



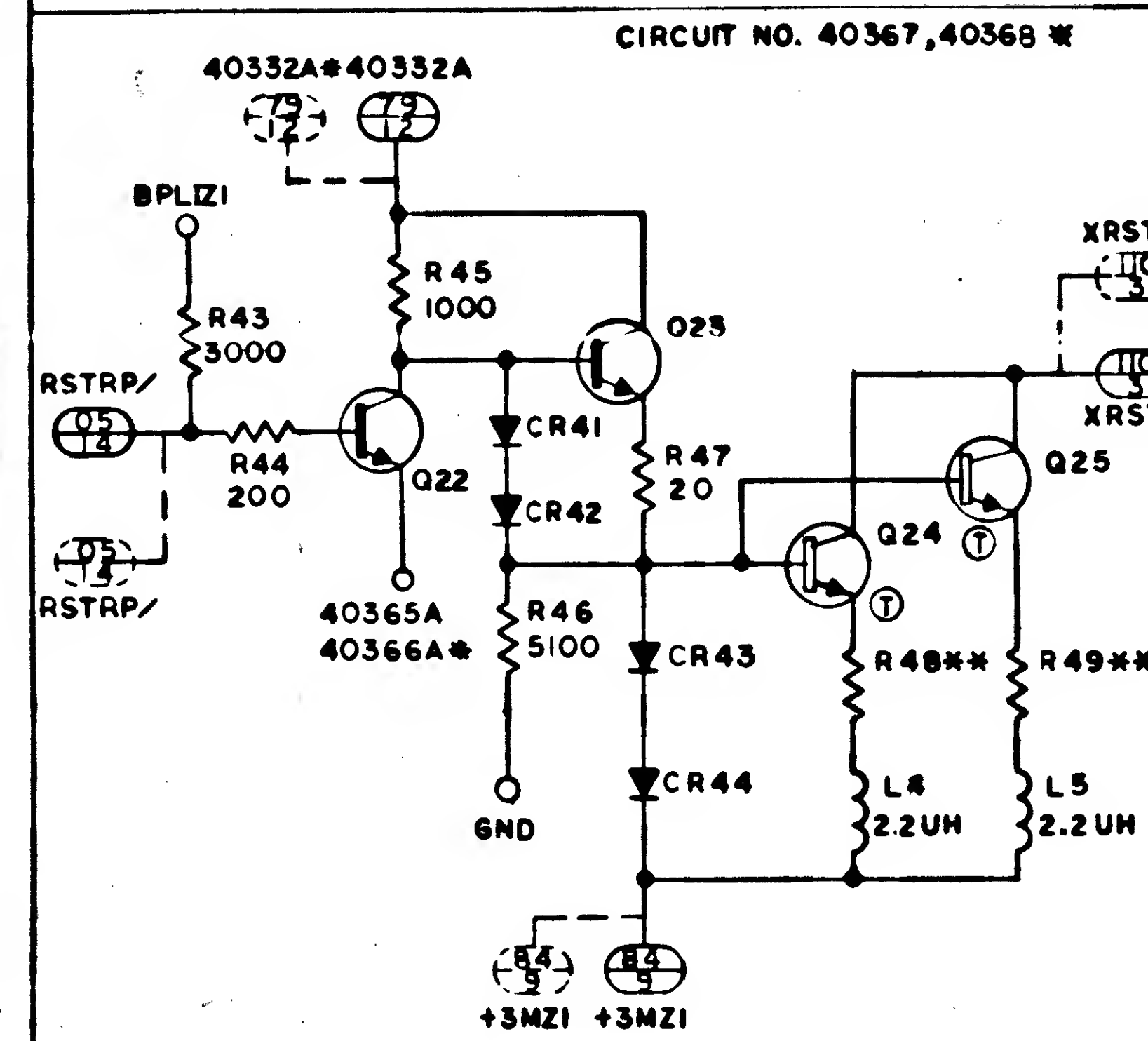
9 IDENTICAL CIRCUITS
CIRCUIT NUMBERS 40311 THRU 40318
40321 THRU 40328



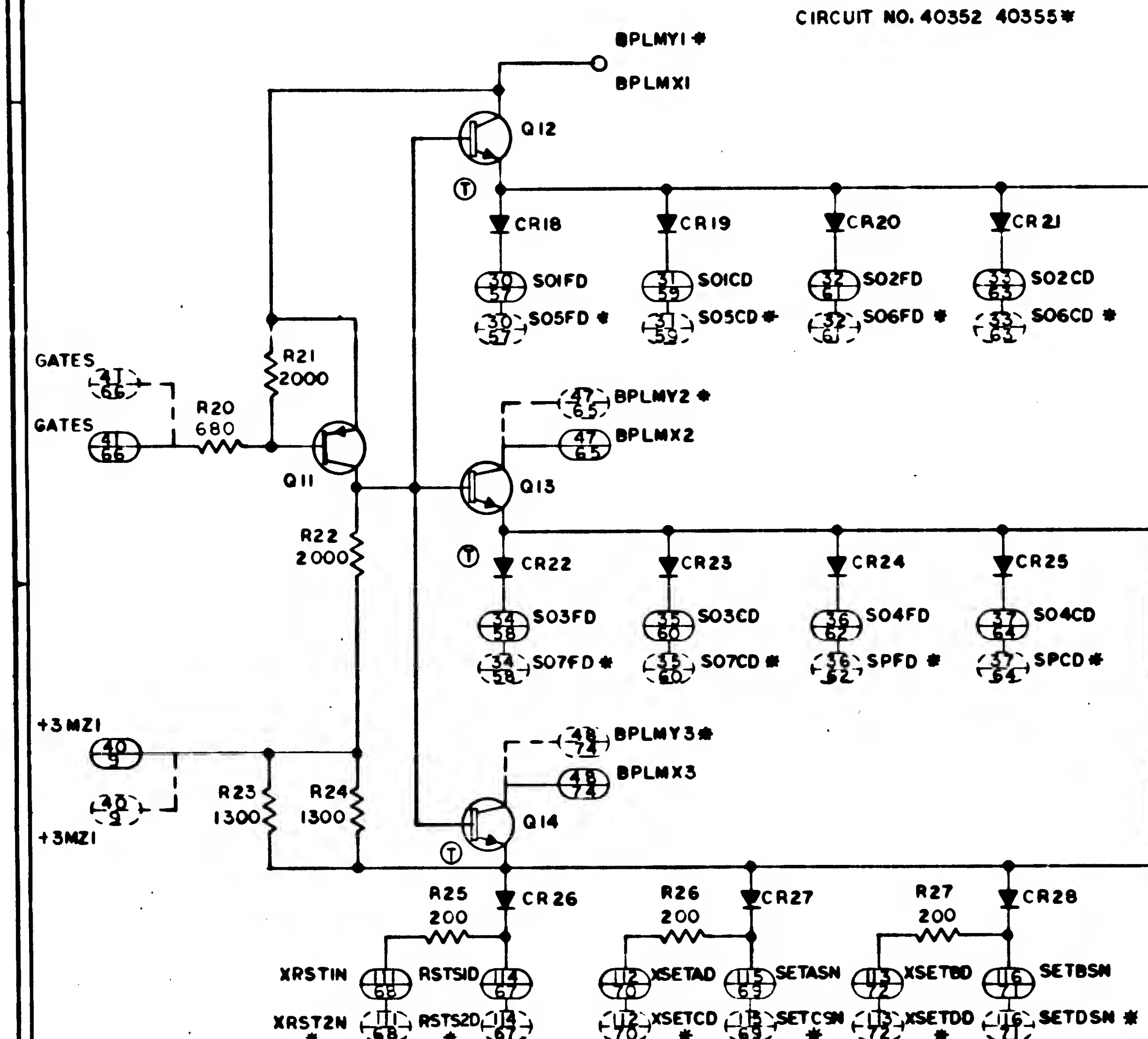
CIRCUIT NUMBERS 40361 40362
40363#40364#



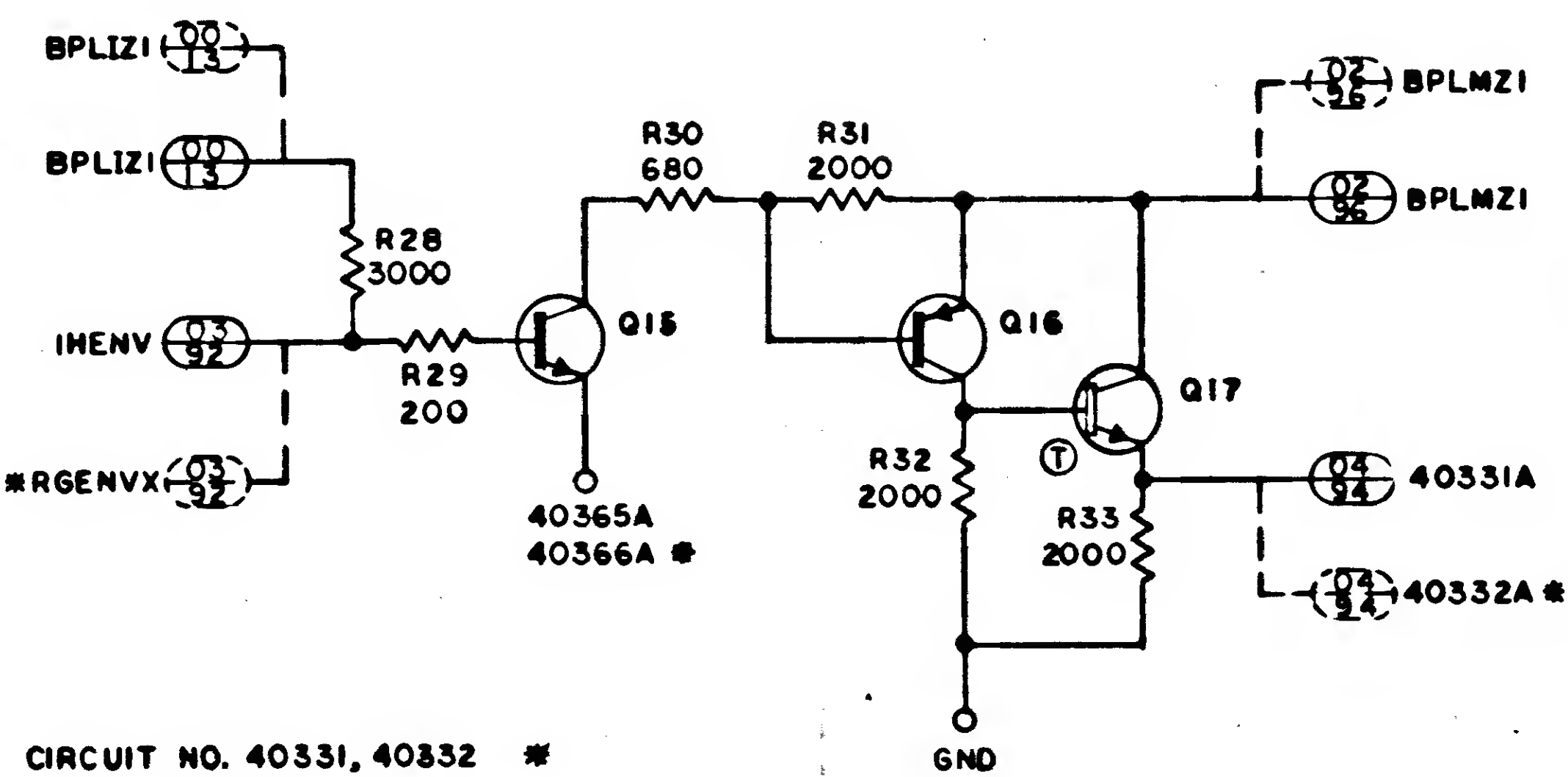
CIRCUIT NO. 40351 40354 :



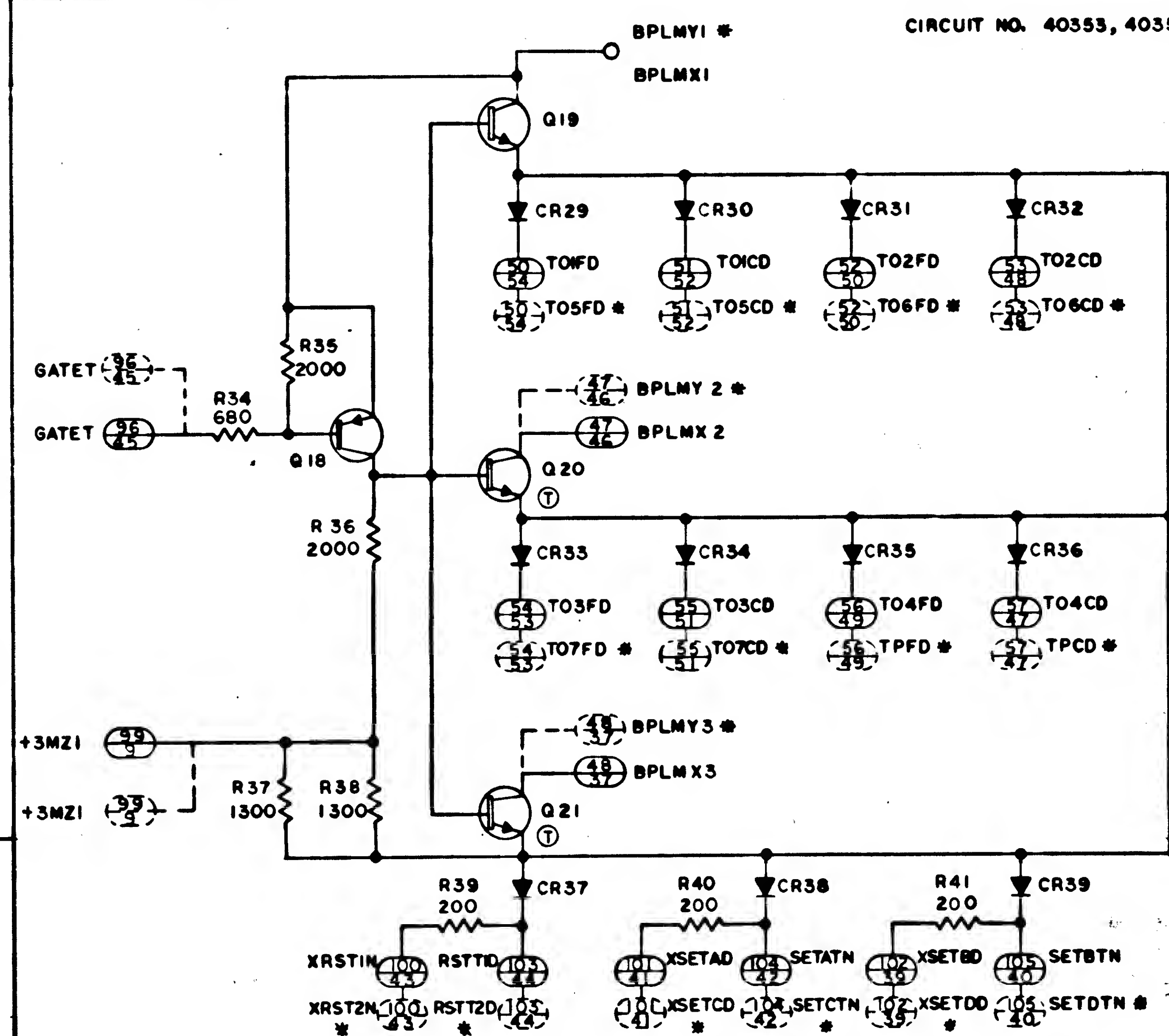
CIRCUIT NO. 40367, 40368 *



CIRCUIT NO. 40352 40355*



CIRCUIT NO. 40331, 40332 *

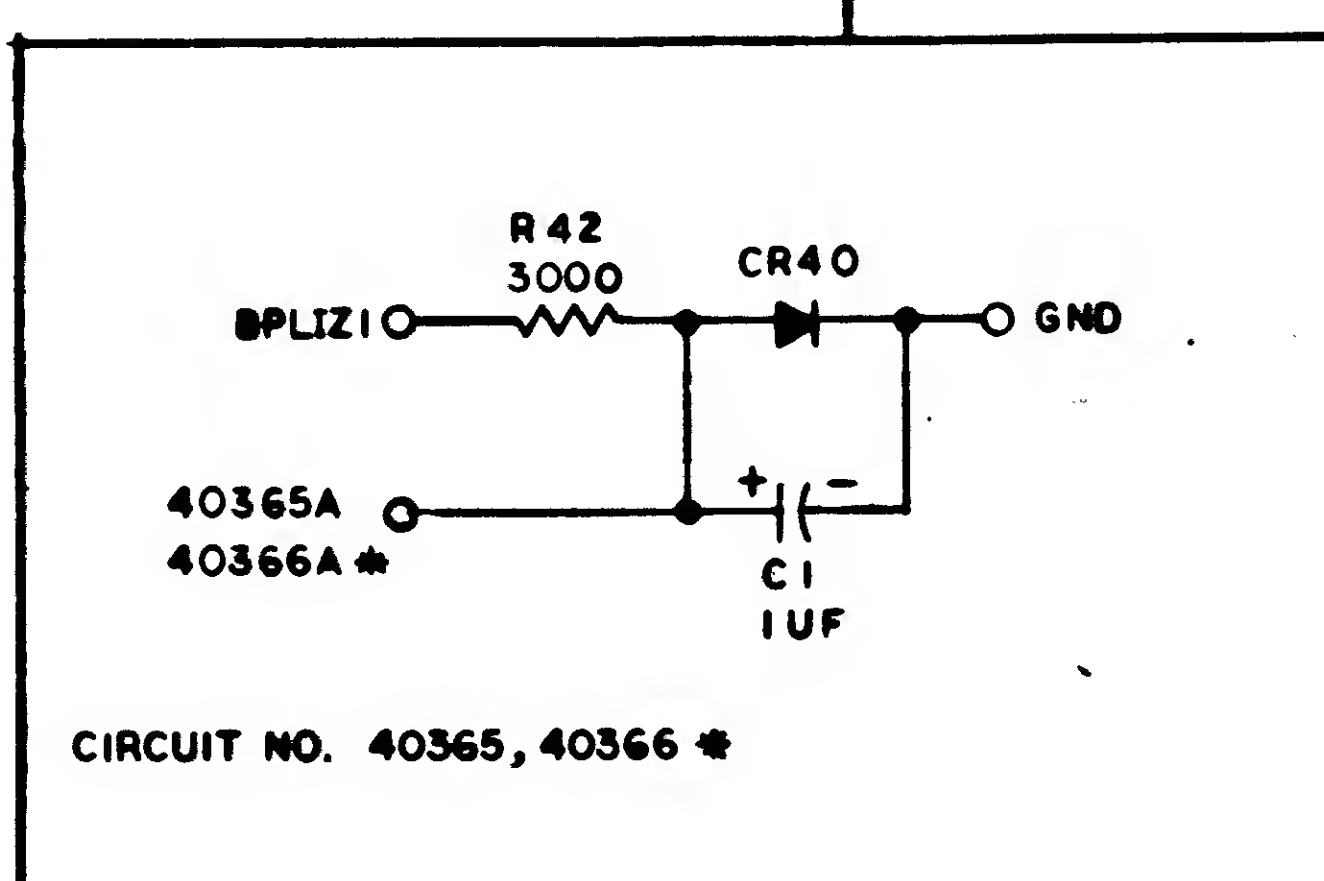


CIRCUIT NO. 40353, 40356

C.OMPONENT PREFIX (ASSY)	CIRCUIT NO.	A			B			C			D			E			F		
		SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AG 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5	SIGNAL	PIN NO. AGC 4	PIN NO. AGC 5
1	40311	ILO1	10	140	40331A	70	99	X01FN	119	139	+3MX1	60	133						
2	40312	ILO2	11	137				X01CN	118	138		61							
3	40315	ILO2	12	130				X02FN	117	129		62							
4	40314	ILO2	13	127				X02CN	88	128		63							
5	40315	ILO3	14	118				X03FN	87	117	+3MX2	64	111						
6	40316	ILO3	15	115				X03CN	86	116		65							
7	40317	ILO4	16	108				X04FN	08	107		66							
8	40318	ILO4	17	105	40331A	70	99	X04CN	07	106		67							
9	40319	N.C.	18	102	N.C.	78	100	N.C.	06	95	N.C.	68	97						
1	40321 *	ILO5	10	140	40331A	70	99	X05FN	119	139	+3MY1	60	133						
2	40322 *	ILO5	11	137				X05CN	118	138		61							
3	40323 *	ILO6	12	130				X06FN	117	129		62							
4	40324 *	ILO6	13	127				X06CN	88	128		63							
5	40325 *	ILO7	14	118				X07FN	87	117	+3MY2	64	111						
6	40326 *	ILO7	15	115				X07CN	86	116		65							
7	40327 *	I L P	16	108				XPCN	08	107		66							
8	40328 *	I L P	17	105	40331A	70	99	XPCN	07	106		67							
9	40329 *	N.C.	18	102	N.C.	78	100	N.C.	06	95	N.C.	68	97						
1	40361													SETA /	85	38	XSETA0	75	25
2	40362													SETB /	82	17	XSETB0	72	30
3	40363													SETC /	85	38	XSETC0	75	25
4	40364 *													SETD /	82	17	XSETD0	72	30

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. UNLESS OTHERWISE SPECIFIED, RESISTOR VALUES ARE IN OHMS
3. CIRCUIT NUMBERS, PIN NUMBERS AND SIGNAL NAMES ON THE SCHEMATIC FOR MODULE NO. B33 ARE INDICATED BY AN ASTERISK (*) OR BY DOTTED BALLOONS () AND ALL OTHERS INDICATE MODULE NO. B33
4. ** TO BE SELECTED AT ELECTRICAL TEST



CIRCUIT NO. 40365, 40366 *

QTY		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
LIST OF MATERIALS							
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES OR FRACTIONS DECIMALS = \pm ANGLES = \pm DO NOT SCALE THIS DRAWING MATERIAL _____ HEAT TREATMENT _____ NEXT ASSY _____ USED ON _____ APPLICATION _____ FINAL PUGH _____				M.I.V. INSTRUMENTATION LAB COMMERCIAL DIVISION DATE <u>10-1-63</u> CHECKED <u>D.J. Rhea</u> APPROVAL <u>D.J. Rhea</u> APPROVAL <u>D.J. Rhea</u> NASA APPROVAL <u>D.J. Rhea</u> SET APPROVAL <u>WJ</u>			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC, ROPE DRIVER MODULE B32 - B33				CODE IDENT NO. _____ SIZE _____ NASA DRAWING NO. _____ 1006147			
SCALE _____				E _____		SHEET 1 OF 2	

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CIRCUIT NO. USED ON MODULE NO.1	MODULE NO. 40329
CR1	1006751	DIODE				40311 THRU 40319	40321 THRU 40329
CR2							
CR3							
CR4						40361	40363
CR5						40362	40364
CR6							
CR7							
CR8							
CR9							
CR10							
CR11						40351	40354
CR12							
CR13							
CR14							
CR15							
CR16							
CR17							
CR18							
CR19							
CR20							
CR21							
CR22							
CR23						40352	40355
CR24							
CR25							
CR26							
CR27							
CR28							
CR29							
CR30							
CR31							
CR32							
CR33							
CR34						40353	40356
CR35							
CR36							
CR37							
CR38							
CR39							
CR40						40365	40366
CR41							
CR42						40367	40368
CR43							
CR44							
Q1	1006752	TRANSISTOR				40311 THRU 40319	40321 THRU 40329
Q2	1006759						
Q3	1006752						
Q4	1006752					40361	40363
Q5	1006759					40362	40364
Q6	1006759						
Q7	1006753						
Q8	1006759						
Q9							
Q10							
Q11	1006753						
Q12	1006759					40352	40355
Q13							
Q14							
Q15	1006752						
Q16	1006753						
Q17	1006759					40331	40332A
Q18	1006753						
Q19	1006759						
Q20						40353	40356
Q21							
Q22	1006752						
Q23	1006752						
Q24	1006759					40367	40368
Q25							

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
				LIST OF MATERIALS			
		M I T INSTRUMENTATION LAB Cambridge, MA		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
		DRAWN <u>C. D. Cole</u> DATE <u>8-2-68</u>		SCHEMATIC, ROPE DRIVER MODULE B32-B33			
		CHECKED					
		APPROVAL <u>D. S. Bower</u> DATE <u>8-2-68</u>					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS = DECIMALS ANGLES = = =		APPROVAL <u>D. S. Bower</u> DATE <u>8-2-68</u>		CODE IDENT. NO.			
DO NOT SCALE THIS DRAWING MATERIAL		APPROVAL <u>D. S. Bower</u> DATE <u>8-2-68</u>		SIZE E			
HEAT TREATMENT		NASA APPROVAL <u>W. J. R. [Signature]</u>		NASA DRAWING NO.			
NEXT ASSY USED ON		NASA APPROVAL <u>W. J. R. [Signature]</u>		1006147			
FINAL FOREIGN		MST APPROVAL <u>W. J. R. [Signature]</u>		SCALE			
ARM/LOCATION				WT			
				SHEET 2 OF 2			

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CIRCUIT NO. USED ON MODULE NO.	MODULE NO.
R1	1006750-43	RESISTOR	3000	±2%	1/4W	40311	40321
R2	↓ -15		322			THRU	THRU
R3	↓ -22		390			40319	40329
R4	SEE CHART A						
R5	1006750-43		3000				
R6	↓ -15		200				
R7	↓ -32		1000			40361	40363
R8	↓ -49		5100			40362	40364
R9	1006788-8		20	±1%			
R10	SEE CHART B						
R11	SEE CHART B						
R12	1006750-28		680	±2%			
R13	↓ -39		2000				
R14	↓ -39		2000				
R15	↓ -35		1300			40351	40354
R16	↓ -35		1300				
R17	↓ -15		200				
R18	↓ -15		200				
R19	↓ -15		200				
R20	↓ -28		680				
R21	↓ -39		2000				
R22	↓ -39		2000				
R23	↓ -35		1300			40352	40355
R24	↓ -35		1300				
R25	↓ -15		200				
R26	↓ -15		200				
R27	↓ -15		200				
R28	↓ -43		3000				
R29	↓ -15		200				
R30	↓ -28		680			40331	40332A
R31	↓ -39		2000				
R32	↓ -39		2000				
R33	↓ -39		2000				
R34	↓ -28		680				
R35	↓ -39		2000				
R36	↓ -39		2000				
R37	↓ -35		1300			40353	40356
R38	↓ -35		1300				
R39	↓ -15		200				
R40	↓ -15		200				
R41	↓ -15		200				
R42	↓ -43		3000			40365	40366
R43	↓ -43		3000				
R44	↓ -15		200				
R45	↓ -32		1000				
R46	↓ -49		5100			40367	40368
R47	1006788-8		20	±1%			
R48	SEE CHART C						
R49	SEE CHART C						
C1	1006755-69	CAPACITOR	1UF		35VDC	40365	40366
L1	1010406-10	COIL	2.2UH			40361	40363
L2	↓ -10		2.2UH			40362	40364
L3	↓ -10		2.2UH				
L4	↓ -10		2.2UH				
L5	↓ -10		2.2UH			40367	40368

CHART A REF R4 SEE NOTE 4	
VALUE (OHMS)	PART NO.
1.5	1006788-51
1.6	-53
1.7	-16
1.8	-18
1.9	-20
2.0	-22
2.1	-24
2.2	-26
2.3	-28
2.4	-18
2.5	-29
2.6	-30
2.7	-31
2.8	-32

CHART B REF R10 & R11 SEE NOTE 4	
VALUE (OHNS)	PART NO.
1.5	1006788-29
2.6	-30
2.7	-31
2.8	-32
2.9	-33
3.0	-34
3.1	-35
3.2	-36
3.3	-37
3.4	-38
3.5	-39
3.6	-40
3.7	-41
3.8	-42
3.9	-43
4.0	-44
4.1	-45
4.2	-46
4.3	-47
4.4	-48
4.5	-49

CHART C. REF R40 & R49	
SEE NOTE 4	
VALUE (OHMS)	PART NO.
3.0	1006788 -34
3.1	-35
3.2	-36
3.3	-37
3.4	-38
3.5	-39
3.6	-40
3.7	-41
3.8	-42
3.9	-43
4.0	-44
4.1	-45
4.2	-46
4.3	-47
4.4	-48
4.5	-49
4.6	-50
4.7	-1
4.8	-2
4.9	-3
5.0	-4

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CIRCUIT NO. USED ON MODULE NO.1	MODULE NO.2
CR1	1006751	DIODE				4031 THRU 40319	40321 THRU 40329
CR2							
CR3							
CR4						40361	40363
CR5						40362	40364
CR6							
CR7							
CR8							
CR9							
CR10							
CR11						40351	40354
CR12							
CR13							
CR14							
CR15							
CR16							
CR17							
CR18							
CR19							
CR20							
CR21							
CR22							
CR23						40352	40355
CR24							
CR25							
CR26							
CR27							
CR28							
CR29							
CR30							
CR31							
CR32							
CR33							
CR34						40353	40356
CR35							
CR36							
CR37							
CR38							
CR39							
CR40						40365	40366
CR41							
CR42						40367	40368
CR43							
CR44							
Q1	1006752	TRANSISTOR				40311 THRU 40319	40321 THRU 40329
Q2	1006759						
Q3	1006752						
Q4	1006752					40361	40363
Q5	1006753					40362	40364
Q6	1006759						
Q7	1006753						
Q8	1006759					40351	40354
Q9							
Q10							
Q11	1006753						
Q12	1006759					40352	40355
Q13							
Q14							
Q15	1006752						
Q16	1006753					40331	40332A
Q17	1006759						
Q18	1006753						
Q19	1006759					40353	40356
Q20							
Q21							
Q22	1006752						
Q23	1006752					40367	40368
Q24	1006759						

POSTER

		QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FOLD NO.	
						LIST OF MATERIALS			
		M T F INSTRUMENTATION LAB <small>COMPONENTS - IDENTIFY</small>		MANNED SPACECRAFT CENTER HOUSTON, TEXAS					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		<small>DWG NO.</small> CHECKED		SCHEMATIC, ROPE DRIVER MODULE B32-B33					
TOLERANCES ON FRACTIONS = DECIMALS ANGLES = ± ± ± ± ±		DRAWN <u>G. D. G.</u> DATE <u>8-29-59</u>							
DO NOT SCALE THIS DRAWING MATERIAL ————		APPROVAL <u>DS Burtis</u> <u>2-20-63</u>		CODE IDENT NO. SIZE E MSMA DRAWING NO. 1006147					
HEAT TREATMENT ————		APPROVAL <u>DS Burtis</u> <u>2-20-63</u>							
NEXT ARMY	USED ON	NASA APPROVAL <u>W. P. R.</u> <u>7-10-63</u>		SCALE _____ WT _____ SHEET 2 OF 2					
FINAL FINISH ————		MET APPROVAL <u>W. P. R.</u> <u>7-10-63</u>							

REVISIONS 076 1/2
A REVISED PER TDRR 05562
B REVISED PER TDRR 08105
C REVISED PER TDRR 08105
D REVISED PER TDRR 08105
E REVISED PER TDRR 08105
F REVISED PER TDRR 08105
G REVISED PER TDRR 08105
H REVISED PER TDRR 08105
I REVISED PER TDRR 08105
J REVISED PER TDRR 08105
K REVISED PER TDRR 08105
L REVISED PER TDRR 08105
M REVISED PER TDRR 08105
N REVISED PER TDRR 08105
O REVISED PER TDRR 08105
P REVISED PER TDRR 08105
Q REVISED PER TDRR 08105
R REVISED PER TDRR 08105
S REVISED PER TDRR 08105
T REVISED PER TDRR 08105
U REVISED PER TDRR 08105
V REVISED PER TDRR 08105
W REVISED PER TDRR 08105
X REVISED PER TDRR 08105
Y REVISED PER TDRR 08105
Z REVISED PER TDRR 08105

REVISIONS 076 1/2
A REVISED PER TDRR 05562
B REVISED PER TDRR 08105
C REVISED PER TDRR 08105
D REVISED PER TDRR 08105
E REVISED PER TDRR 08105
F REVISED PER TDRR 08105
G REVISED PER TDRR 08105
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I REVISED PER TDRR 08105
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R REVISED PER TDRR 08105
S REVISED PER TDRR 08105
T REVISED PER TDRR 08105
U REVISED PER TDRR 08105
V REVISED PER TDRR 08105
W REVISED PER TDRR 08105
X REVISED PER TDRR 08105
Y REVISED PER TDRR 08105
Z REVISED PER TDRR 08105

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CIRCUIT NO. USED ON
R1	1006750-45	RESISTOR	3000	±2%	1/4W	40311 THRU 40321
R2	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R3	1006750-45	RESISTOR	390	±2%	1/4W	40311 THRU 40321
R4	1006750-45	RESISTOR	3000	±2%	1/4W	40311 THRU 40321
R5	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R6	1006750-45	RESISTOR	1000	±2%	1/4W	40311 THRU 40321
R7	1006750-45	RESISTOR	5100	±2%	1/4W	40311 THRU 40321
R8	1006750-45	RESISTOR	20	±2%	1/4W	40311 THRU 40321
R9	1006750-45	RESISTOR	680	±2%	1/4W	40311 THRU 40321
R10	1006750-45	RESISTOR	2000	±2%	1/4W	40311 THRU 40321
R11	1006750-45	RESISTOR	2000	±2%	1/4W	40311 THRU 40321
R12	1006750-45	RESISTOR	1300	±2%	1/4W	40311 THRU 40321
R13	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R14	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R15	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R16	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R17	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R18	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R19	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R20	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R21	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R22	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R23	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R24	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R25	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R26	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R27	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R28	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R29	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R30	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R31	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R32	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R33	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R34	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R35	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R36	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R37	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R38	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R39	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R40	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R41	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R42	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R43	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R44	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R45	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R46	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R47	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R48	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
R49	1006750-45	RESISTOR	200	±2%	1/4W	40311 THRU 40321
C1	1006755-69	CAPACITOR	1UF		35VDC	40365 40366
L1	1010406-10	COIL	2.2UH			40365 40366
L2	1010406-10	COIL	2.2UH			40365 40366
L3	1010406-10	COIL	2.2UH			40365 40366
L4	1010406-10	COIL	2.2UH			40365 40366
L5	1010406-10	COIL	2.2UH			40365 40366

VALUE (OHMS)	PART NO.
1.5	1006788-51
1.6	-53
1.7	-16
1.8	-18
1.9	-20
2.0	-22
2.1	-24
2.2	-26
2.3	-28
2.4	-30
2.5	-32
2.6	-34
2.7	-36
2.8	-38

VALUE (OHMS)	PART NO.
2.5	1006788-34
2.6	-36
2.7	-38
2.8	-40
2.9	-42
3.0	-44
3.1	-46
3.2	-48
3.3	-50
3.4	-52
3.5	-54
3.6	-56
3.7	-58
3.8	-60
3.9	-62
4.0	-64
4.1	-66
4.2	-68
4.3	-70
4.4	-72
4.5	-74

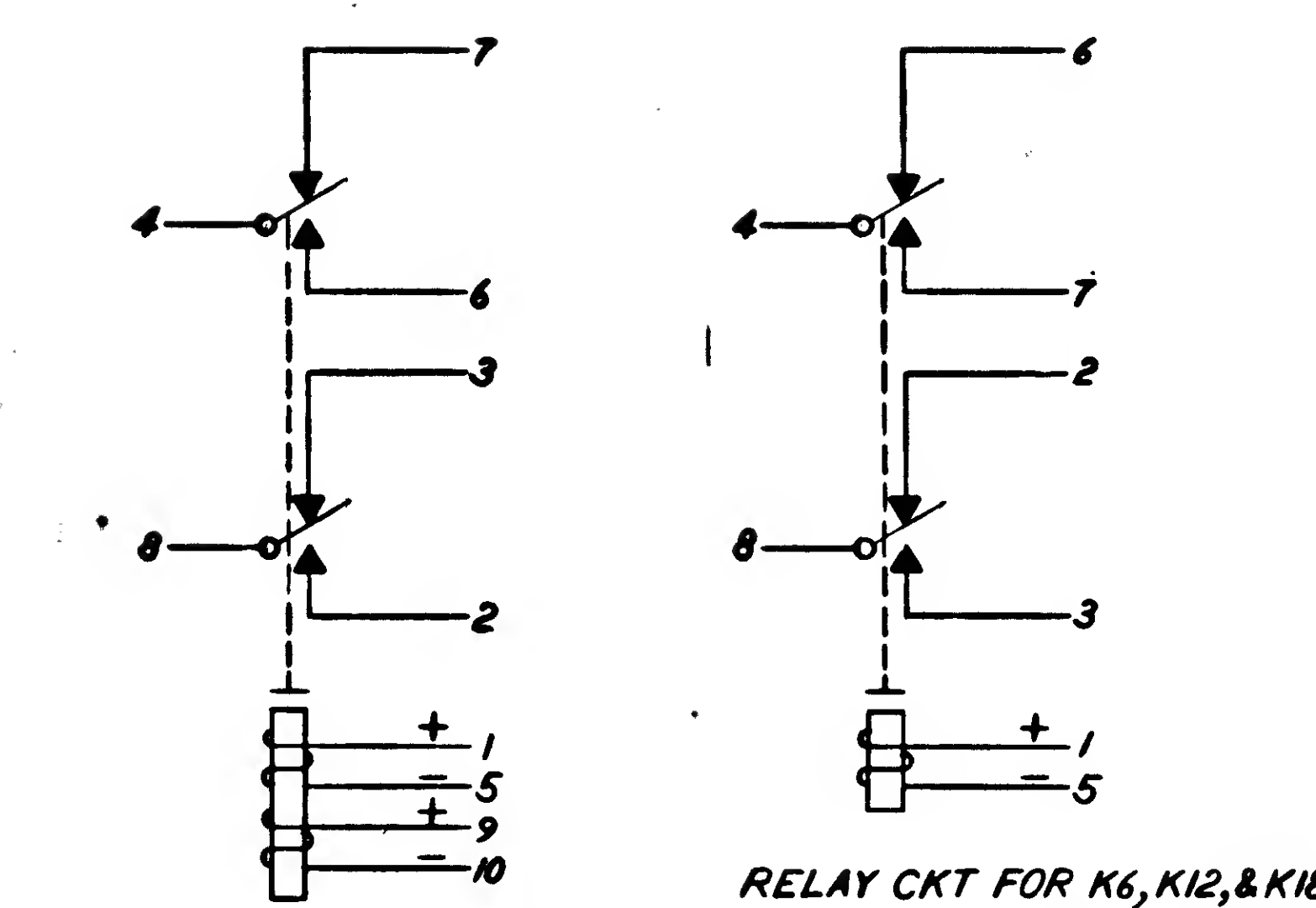
VALUE (OHMS)	PART NO.
3.0	1006788-34
3.1	-36
3.2	-38
3.3	-40
3.4	-42
3.5	-44
3.6	-46
3.7	-48
3.8	-50
3.9	-52
4.0	-54
4.1	-56
4.2	-58
4.3	-60
4.4	-62
4.5	-64

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CIRCUIT NO. USED ON
CR1	1006751	DIODE				40311 THRU 40321
CR2	1006751	DIODE				40311 THRU 40321
CR3	1006751	DIODE				40311 THRU 40321
CR4	1006751	DIODE				40311 THRU 40321
CR5	1006751	DIODE				40311 THRU 40321
CR6	1006751	DIODE				40311 THRU 40321
CR7	1006751	DIODE				40311 THRU 40321
CR8	1006751	DIODE				40311 THRU 40321
CR9	1006751	DIODE				40311 THRU 40321
CR10	1006751	DIODE				40311 THRU 40321
CR11	1006751	DIODE				40311 THRU 40321
CR12	1006751	DIODE				40311 THRU 40321
CR13	1006751	DIODE				40311 THRU 40321
CR14	1006751	DIODE				40311 THRU 40321
CR15	1006751	DIODE				40311 THRU 40321
CR16	1006751	DIODE				40311 THRU 40321
CR17	1006751	DIODE				40311 THRU 40321
CR18	1006751	DIODE				40311 THRU 40321
CR19	1006751	DIODE				40311 THRU 40321
CR20	1006751	DIODE				40311 THRU 40321
CR21	1006751	DIODE				40311 THRU 40321
CR22	1006751	DIODE				40311 THRU 40321
CR23	1006751	DIODE				40311 THRU 40321
CR24	1006751	DIODE				40311 THRU 40321
CR25	1006751	DIODE				40311 THRU 40321
CR26	1006751	DIODE				40311 THRU 40321
CR27	1006751	DIODE				40311 THRU 40321
CR28	1006751	DIODE				40311 THRU 40321
CR29	1006751	DIODE				40311 THRU 40321
CR30	1006751	DIODE				40311 THRU 40321
CR31	1006751	DIODE				40311 THRU 40321
CR32	1006751	DIODE				40311 THRU 40321
CR33	1006751	DIODE				40311 THRU 40321
CR34	1006751	DIODE				40311 THRU 40321
CR35	1006751	DIODE				40311 THRU 40321
CR36	1006751	DIODE				40311 THRU 40321
CR37	1006751	DIODE				40311 THRU 40321
CR38	1006751	DIODE				40311 THRU 40321
CR39	1006751	DIODE				40311 THRU 40321
CR40	1006751	DIODE				40311 THRU 40321
CR41	1006751	DIODE				40311 THRU 40321
CR42	1006751	DIODE				40311 THRU 40321
CR43	1006751	DIODE				40311 THRU 40321
CR44	1006751	DIODE				40311 THRU 40321
Q1	1006752	TRANSISTOR				40311 THRU 40321
Q2	1006752	TRANSISTOR				40311 THRU 40321
Q3	1006752	TRANSISTOR				40311 THRU 40321
Q4	1006752	TRANSISTOR				40311 THRU 40321
Q5	1006752	TRANSISTOR				40311 THRU 40321
Q6	1006752	TRANSISTOR				40311 THRU 40321
Q7	1006752	TRANSISTOR				40311 THRU 40321
Q8	1006752	TRANSISTOR				40311 THRU 40321
Q9	1006752	TRANSISTOR				40311 THRU 40321
Q10	1006752	TRANSISTOR				40311 THRU 40321
Q11	1006752	TRANSISTOR				40311 THRU 40321
Q12	1006752	TRANSISTOR				40311 THRU 40321
Q13	1006752	TRANSISTOR				40311 THRU 40321
Q14	1006752	TRANSISTOR				40311 THRU 40321
Q15	1006752	TRANSISTOR				40311 THRU 40321
Q16	1006752	TRANSISTOR				40311 THRU 40321
Q17	1006752	TRANSISTOR				40311 THRU 40321
Q18	1006752	TRANSISTOR				40311 THRU 40321
Q19	1006752	TRANSISTOR				40311 THRU 40321
Q20	1006752	TRANSISTOR				40311 THRU 40321
Q21	1006752	TRANSISTOR				40311 THRU 40321
Q22	1006752	TRANSISTOR				40311 THRU 40321
Q23	1006752	TRANSISTOR				40311 THRU 40321
Q24	1006752	TRANSISTOR				40311 THRU 40321
Q25	1006752	TRANSISTOR				40311 THRU 40321

QTY REQD	PART OR IDENTIFYING NO.	DESCRIPTION OR IDENTIFYING NO.	UNIT
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER			
HOUSTON, TEXAS			
SCHEMATIC, ROPE DRIVER MODULE			
B32-B33			
NASA APPROVAL			
CODE IDENT NO. 1006147			
E			
SHEET 2 OF 2			

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
CLASS A RELEASE PER TORR			
REPLACED BY REV B WITH CHANGE			
PER TORR			

COMPONENT LIST		
REF. DESIGNATION	PART NO.	DESCRIPTION
CR1 THRU CR81	1006751	DIODE
K6, K12, K18	1006815-2	RELAY
K1 THRU K5	1006772-1	
K7 THRU K11	1006772-1	
K13 THRU K17	1006772-1	
K19 THRU K42	1006772-1	RELAY



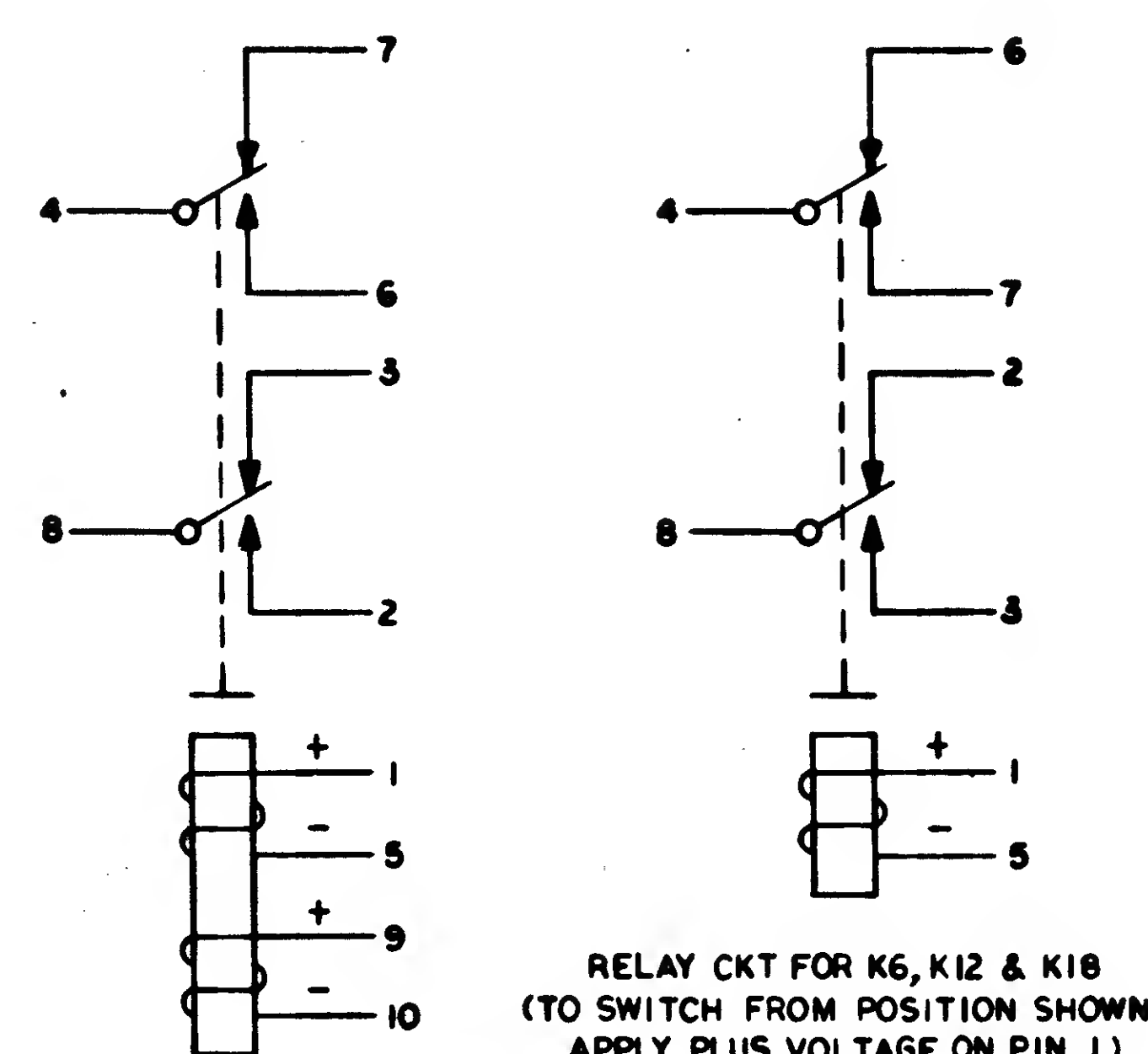
NOTES:
1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH

(A) REPLACED BY REV B WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FINO NO.
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
SCHEMATIC RELAY MODULE AS: EMBLY			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL HEAT TREATMENT NEXT ASBY USED ON APPLICATION			
INSTRUMENTATION LAB CHECKED BY: [Signature] APPROVAL: [Signature] NESA APPROVAL: [Signature] NIT APPROVAL: [Signature]			
CODE IDENT NO. SIZE J 1006161			
SCALE: NONE			

REV	DESCRIPTION	DATE	BY
B	REPLACES REV WITH CHANGE PER TORR 04722	4/65	J

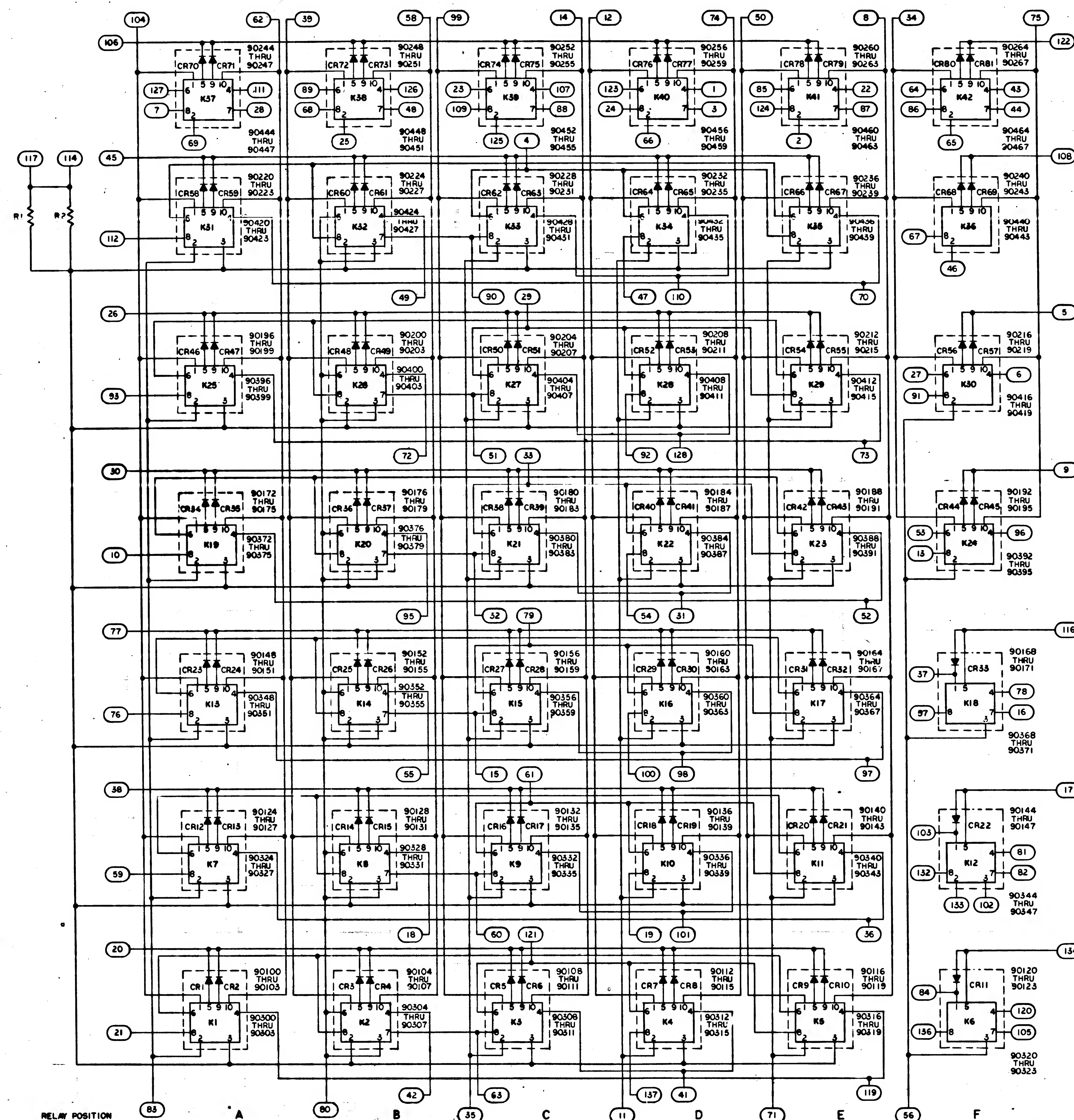
VALUE	TOL	RATING	REF DESIGNATION	PART NO	DESCRIPTION
			CR1 THRU CR81	1006751	DIODE
			K6, K12, K18	1006815-2	RELAY
			K1 THRU K5	1006772-1	
			K7 THRU K11	1006772-1	
			K13 THRU K17	1006772-1	
			K19 THRU K42	1006772-1	RELAY
150K	±5%	1/2 W	R1, R2	1006509	RESISTOR



CKT FOR LATCHING RELAYS K1 THRU K5, K7 THRU K11
K13 THRU K17 & K19 THRU K42
TO SWITCH AND LATCH FROM POSITION SHOWN
APPLY PLUS VOLTAGE ON PIN 10

NOTES
1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN
PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY
DESIGNATION OR BOTH

REFERENCES
1. ASSEMBLY DWG 1003098



STICK 7

STICK 6

STICK 5

STICK 4

STICK 3

STICK 2

STICK 1

(B) REPLACES REV A WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	DESCRIPTION OR IDENTIFICATION	UNIT NO.
LIST OF MATERIALS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL			
INSTRUMENTATION LAB MANNED SPACECRAFT CENTER HOUSTON, TEXAS DRAWN BY: [Signature] CHECKED BY: [Signature] APPROVAL: [Signature] DATE: 12/15/64 SCALE: NONE SHEET: 1 OF 1			
NEXT ASSY USED ON APPLICATION		PART APPROVAL: [Signature] UNIT APPROVAL: [Signature] CODE IDENT NO.: [Signature] SCALE: NONE SHEET: 1 OF 1	

MASTER

REV	DESCRIPTION	DATE	APPROVAL
B	REPLACES REV. WITH CHANGE PER TDRR 06050	11-52	
C	REVISED PER TDRR 06050		

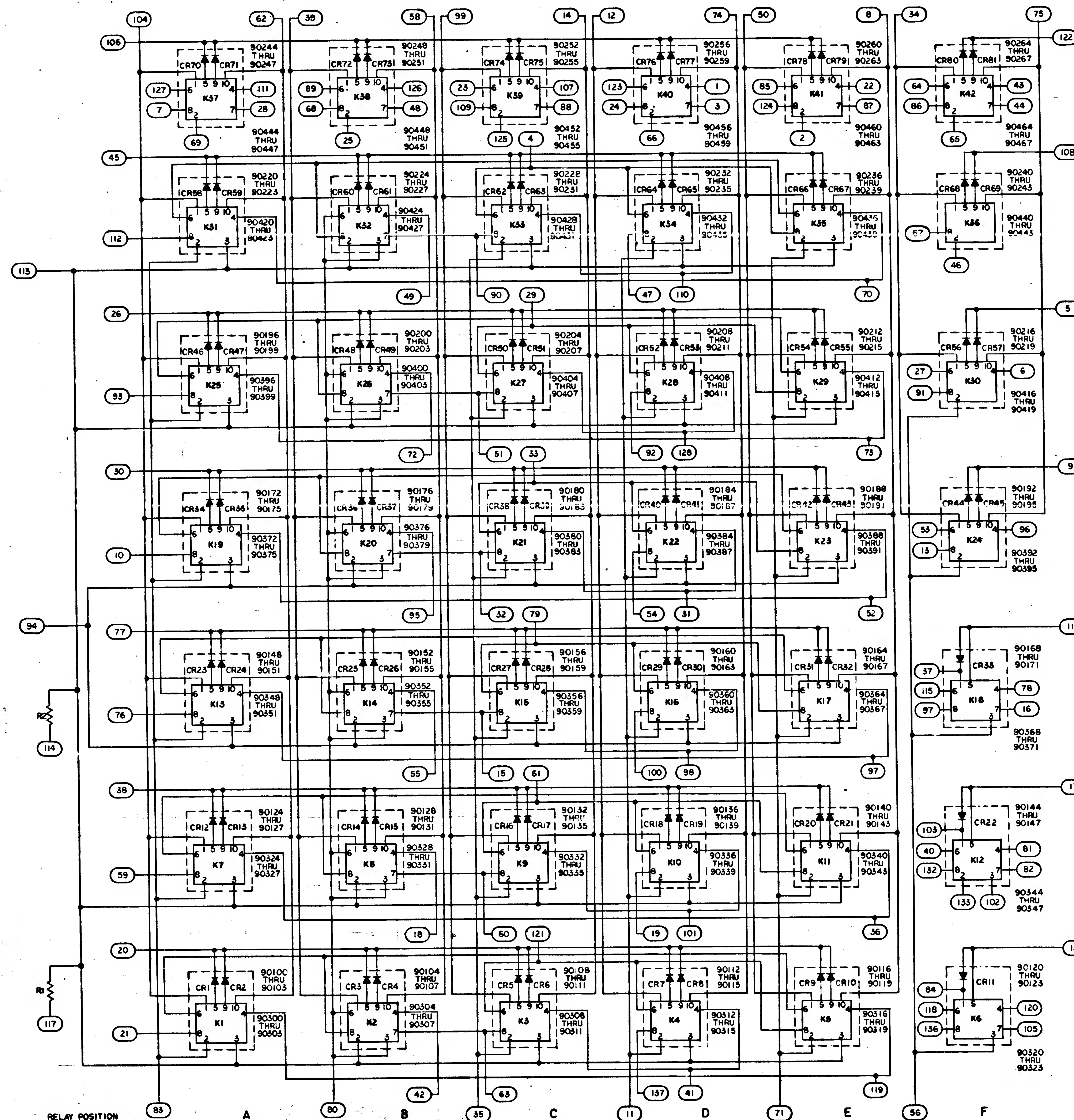
VALUE	TOL	RATING	REF DESIGNATION	PART NO	DESCRIPTION
			CR1 THRU CR81	1006751	DIODE
			K6, K12, K18	1006752	RELAY
			K1 THRU K5	1006772-1	
			K7 THRU K11	1006772-1	
			K13 THRU K17	1006772-1	
			K19 THRU K42	1006772-1	RELAY
150K	±2%	1/4W	R1, R2	1006750-8	RESISTOR

CKT FOR LATCHING RELAYS K1 THRU K5, K7 THRU K11
K13 THRU K17 & K19 THRU K42
TO SWITCH AND LATCH FROM POSITION SHOWN
APPLY PLUS VOLTAGE ON PIN 10

RELAY CKT FOR K6, K12 & K18
(TO SWITCH FROM POSITION SHOWN,
APPLY PLUS VOLTAGE ON PIN 1)

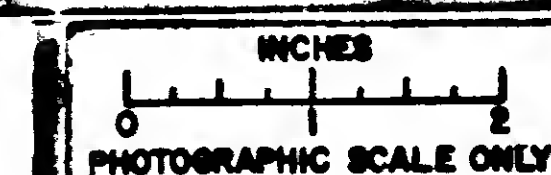
NOTES
1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN
PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY
DESIGNATION OR BOTH

REFERENCES
1. ASSEMBLY DWG 1003098

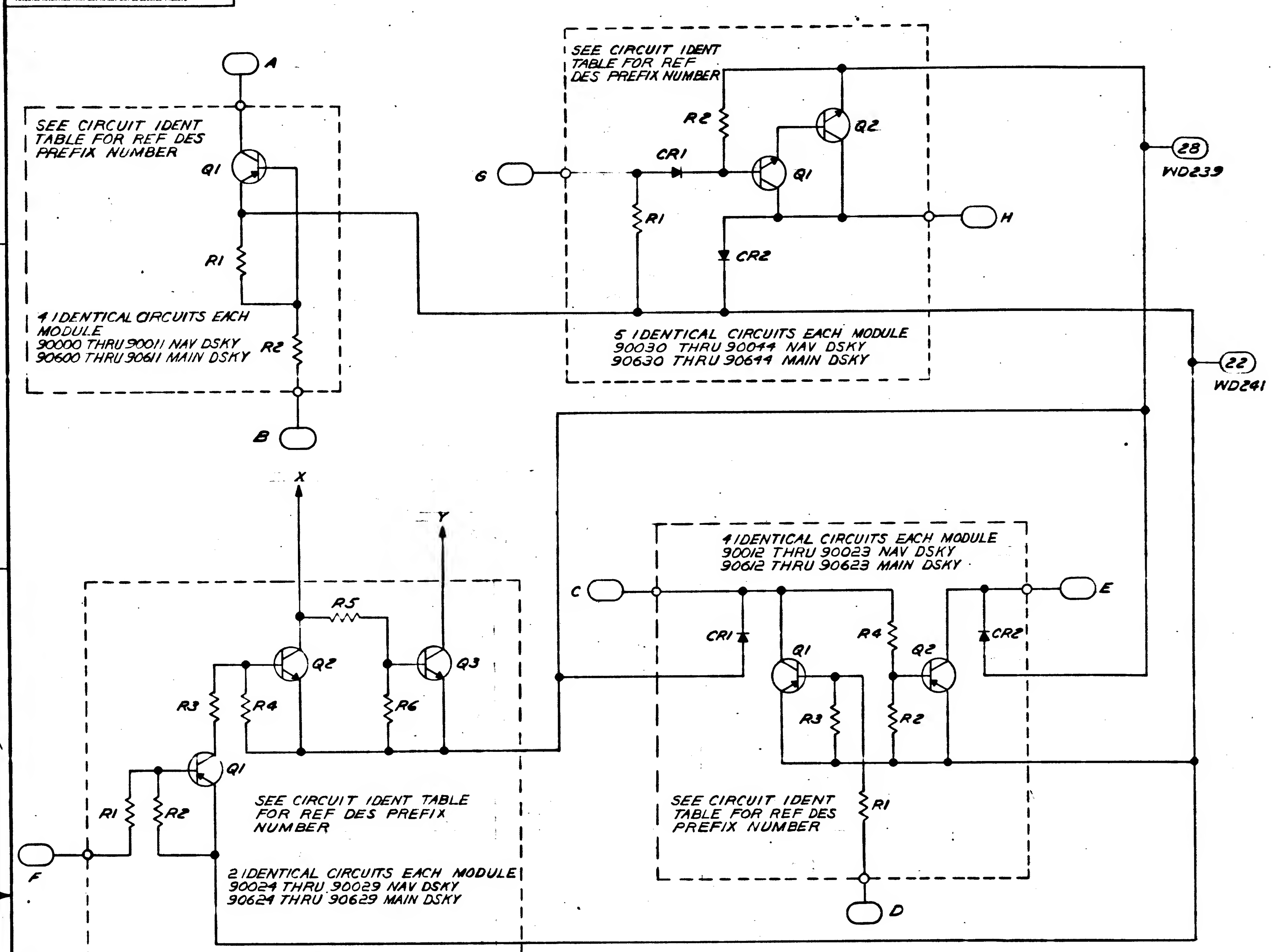


(B) REPLACES REV A WITH CHANGE

QTY	REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	PROD NO.
LIST OF MATERIALS				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL				
HEAT TREATMENT				
NEXT ASSY USED ON APPLICATION				
MILITARY INSTRUMENTATION LAB HOUSTON, TEXAS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
SCHEMATIC RELAY MODULE ASSEMBLY D7-D14 AGC DSKY NAV & MAIN				
DATE APPROVAL		CODE IDENT NO.		DATA DRAWING NO.
DATE APPROVAL		J		1006161
DATE APPROVAL		SCALE NONE		SHEET 1 OF 1



1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ON FRACTIONS: DECIMALS: ANGLES: DO NOT SCALE THIS DRAWING. MATERIAL: HEAT TREATMENT: USED OR: APPLICATION: UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ON FRACTIONS: DECIMALS: ANGLES: DO NOT SCALE THIS DRAWING. MATERIAL: HEAT TREATMENT: USED OR: APPLICATION:



REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
CR1	1006751	DIODE			
CR2					
CR3					
CR4					
CR5					
CR6					
CR7					
CR8					
CR9					
CR10					
CR11					
CR12					
CR13					
CR14					
CR15					
CR16					
CR17					
CR18					
CR19					
CR20					
CR21					
CR22					
CR23					
CR24					
CR25					
CR26					
CR27					
CR28	1006751	DIODE			

NOTES

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
- PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THE DESIGNATIONS WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH
- INDICATES SIGNALS ASSOCIATED WITH MODULE D1 NAV DSKY AND/OR MODULE D4 MAIN DSKY
- INDICATES SIGNALS ASSOCIATED WITH MODULE D2 NAV DSKY AND/OR MODULE D5 MAIN DSKY

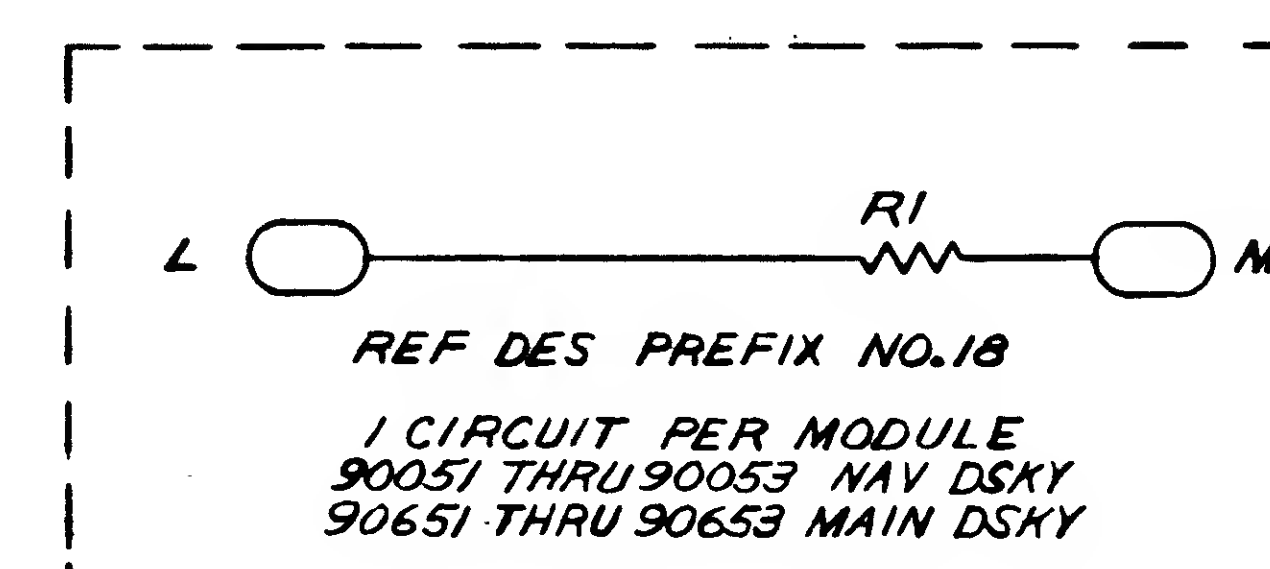
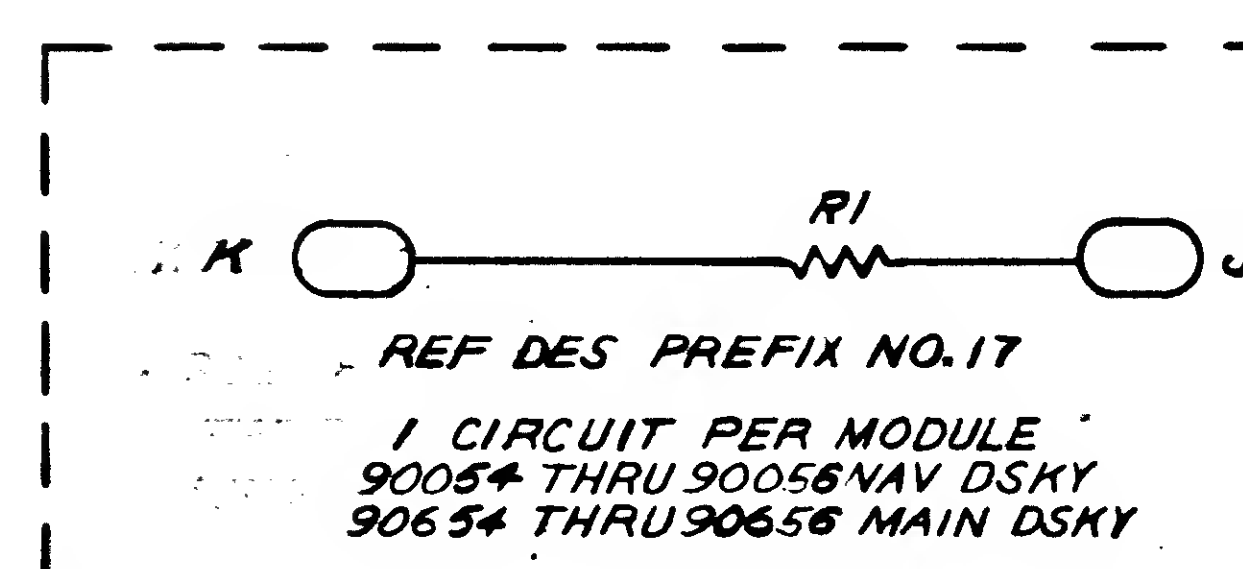
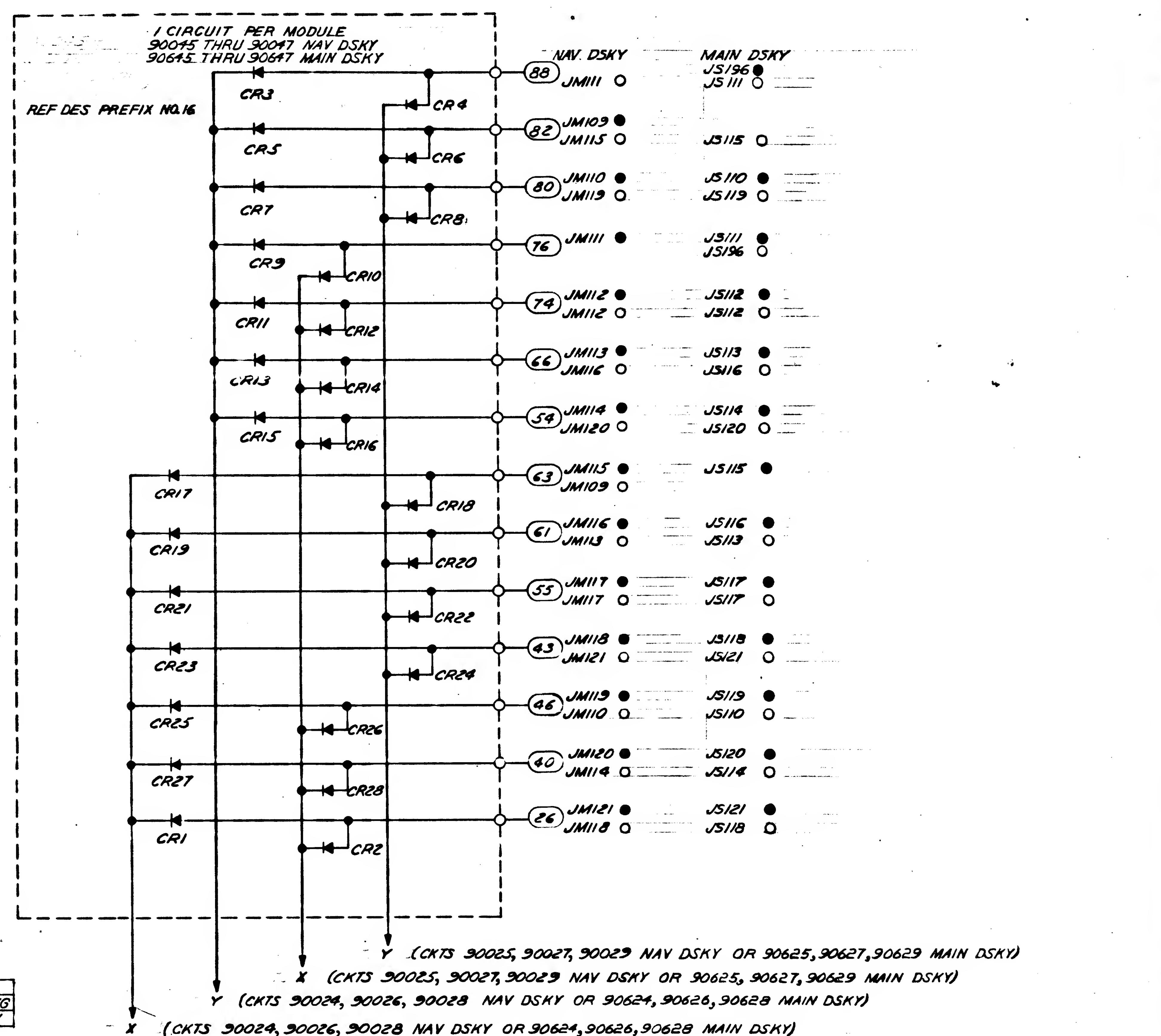
REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R1	1006750-39	RESISTOR	2000	±2%	1/4 W

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
Q1	1006753	TRANSISTOR			
R1	1006750-39	RESISTOR	2000	±2%	1/4 W
R2	1006750-15	RESISTOR	200	±2%	1/4 W

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
CR1	1006751	DIODE			
CR2	1006751	DIODE			
Q1	1006753	TRANSISTOR			
Q2	1006753	TRANSISTOR			
R1	1006750-15	RESISTOR	200	±2%	1/4 W
R2	1006750-39	RESISTOR	2000	±2%	1/4 W
R3	1006750-39	RESISTOR	2000	±2%	1/4 W
R4	1006750-39	RESISTOR	2000	±2%	1/4 W

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
Q1	1006753	TRANSISTOR			
Q2	1006752	TRANSISTOR			
Q3	1006752	TRANSISTOR			
R1	1006750-15	RESISTOR	200	±2%	1/4 W
R2	1006750-39	RESISTOR	2000	±2%	1/4 W
R3	1006750-39	RESISTOR	2000	±2%	1/4 W
R4	1006750-39	RESISTOR	2000	±2%	1/4 W
R5	1006750-39	RESISTOR	2000	±2%	1/4 W
R6	1006750-39	RESISTOR	2000	±2%	1/4 W

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
CR1	1006751	DIODE			
CR2	1006751	DIODE			
Q1	1006752	TRANSISTOR			
Q2	1006752	TRANSISTOR			
R1	1006750-39	RESISTOR	2000	±2%	1/4 W
R2	1006750-39	RESISTOR	2000	±2%	1/4 W

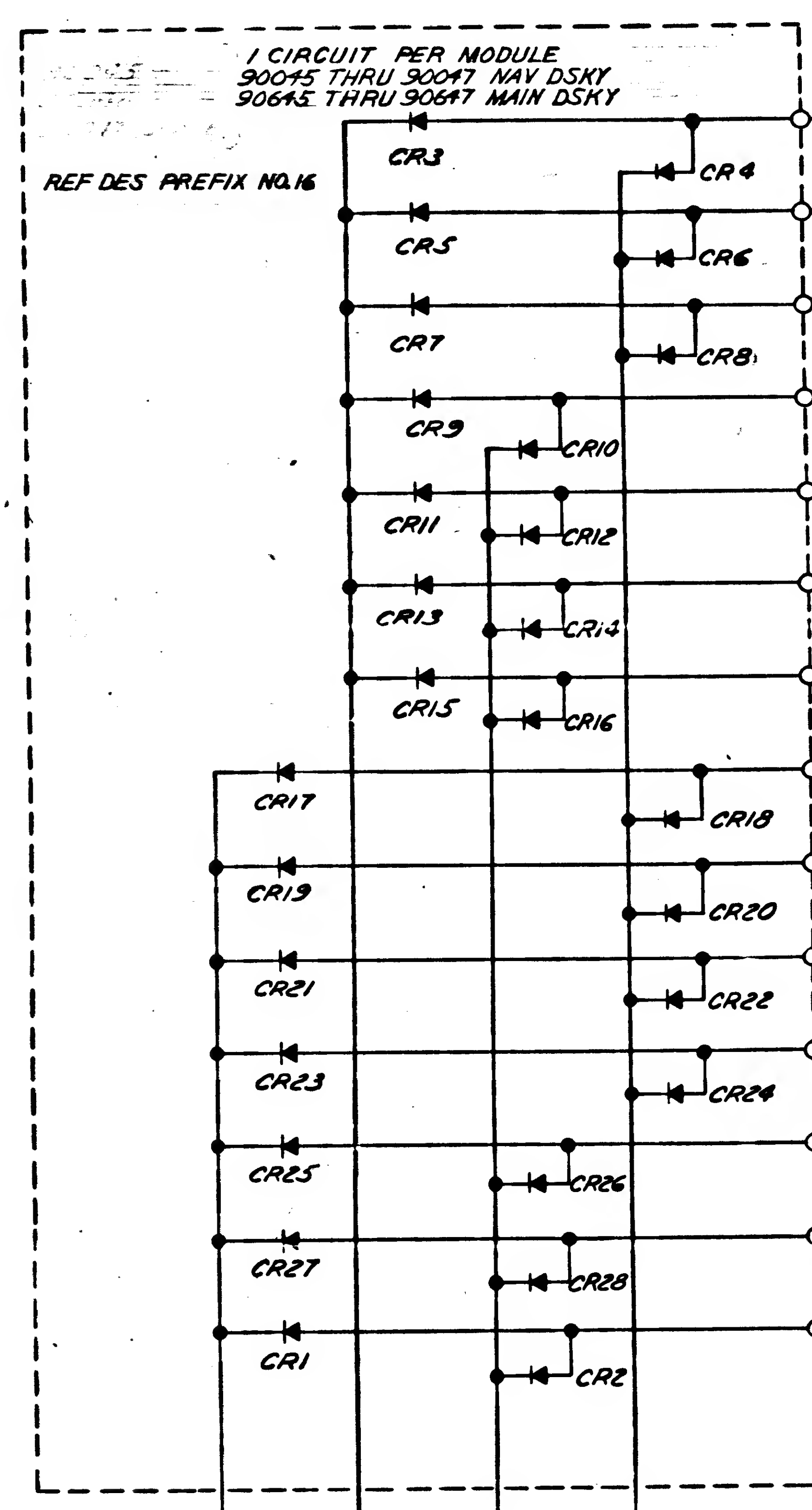
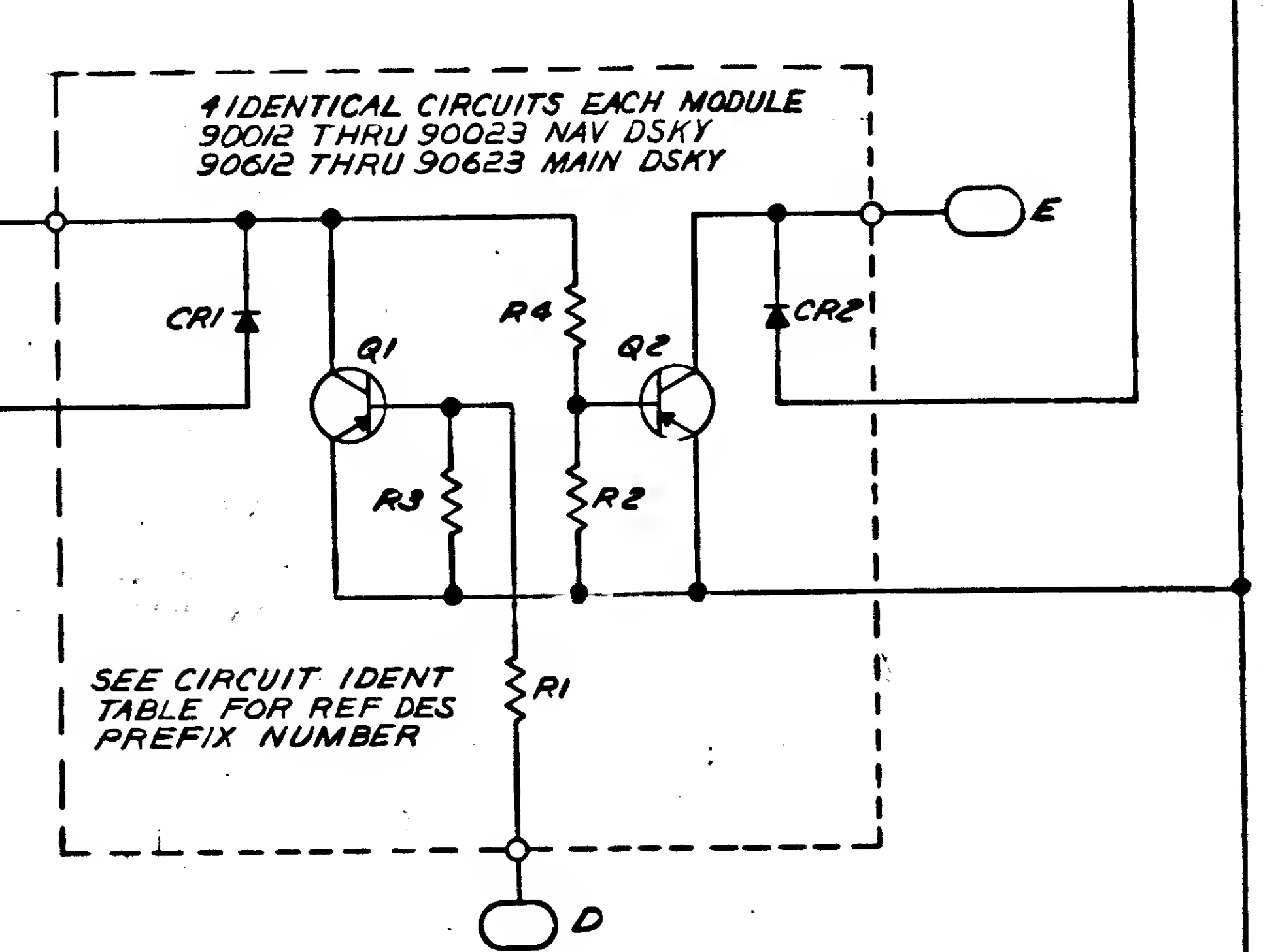
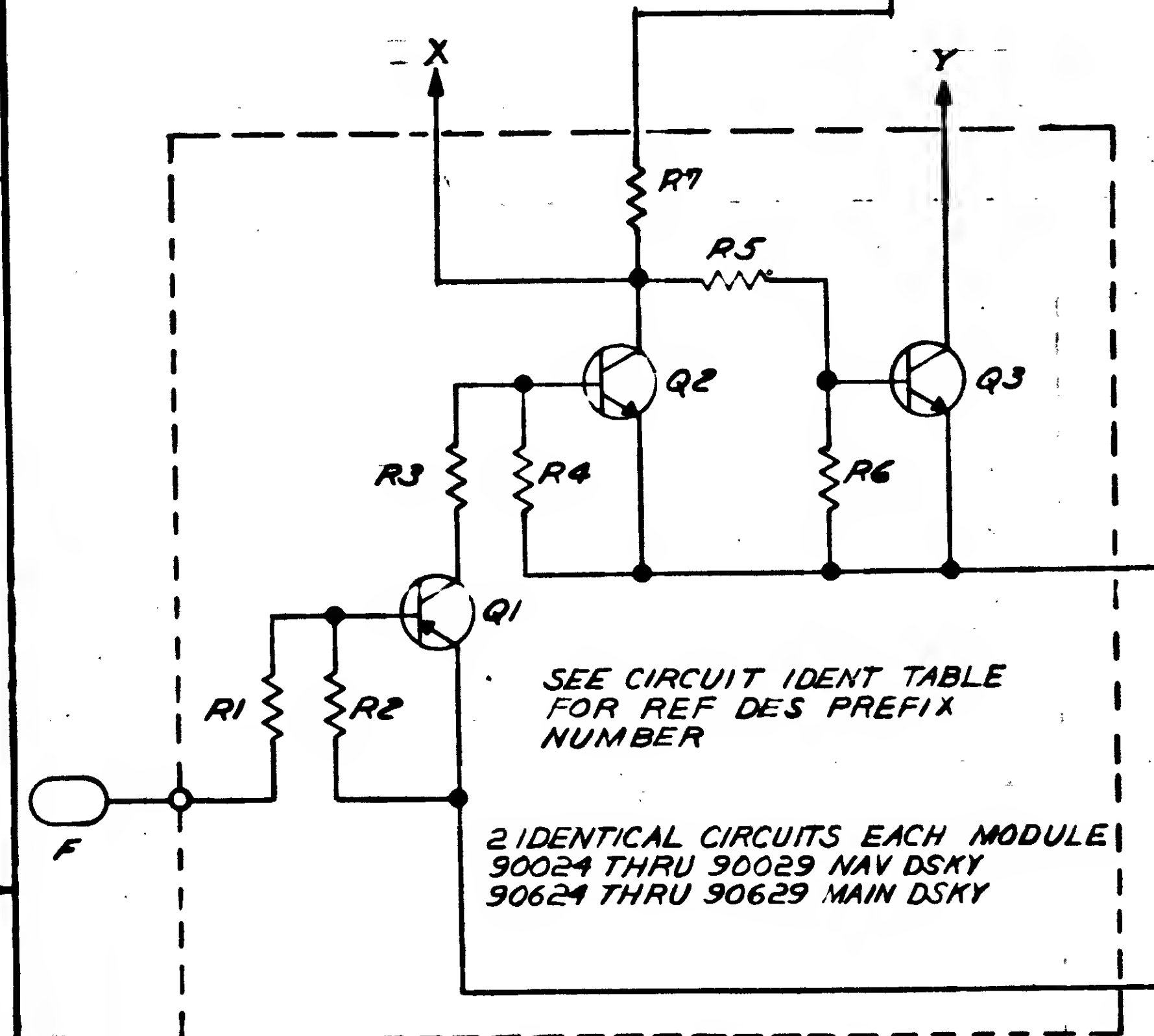
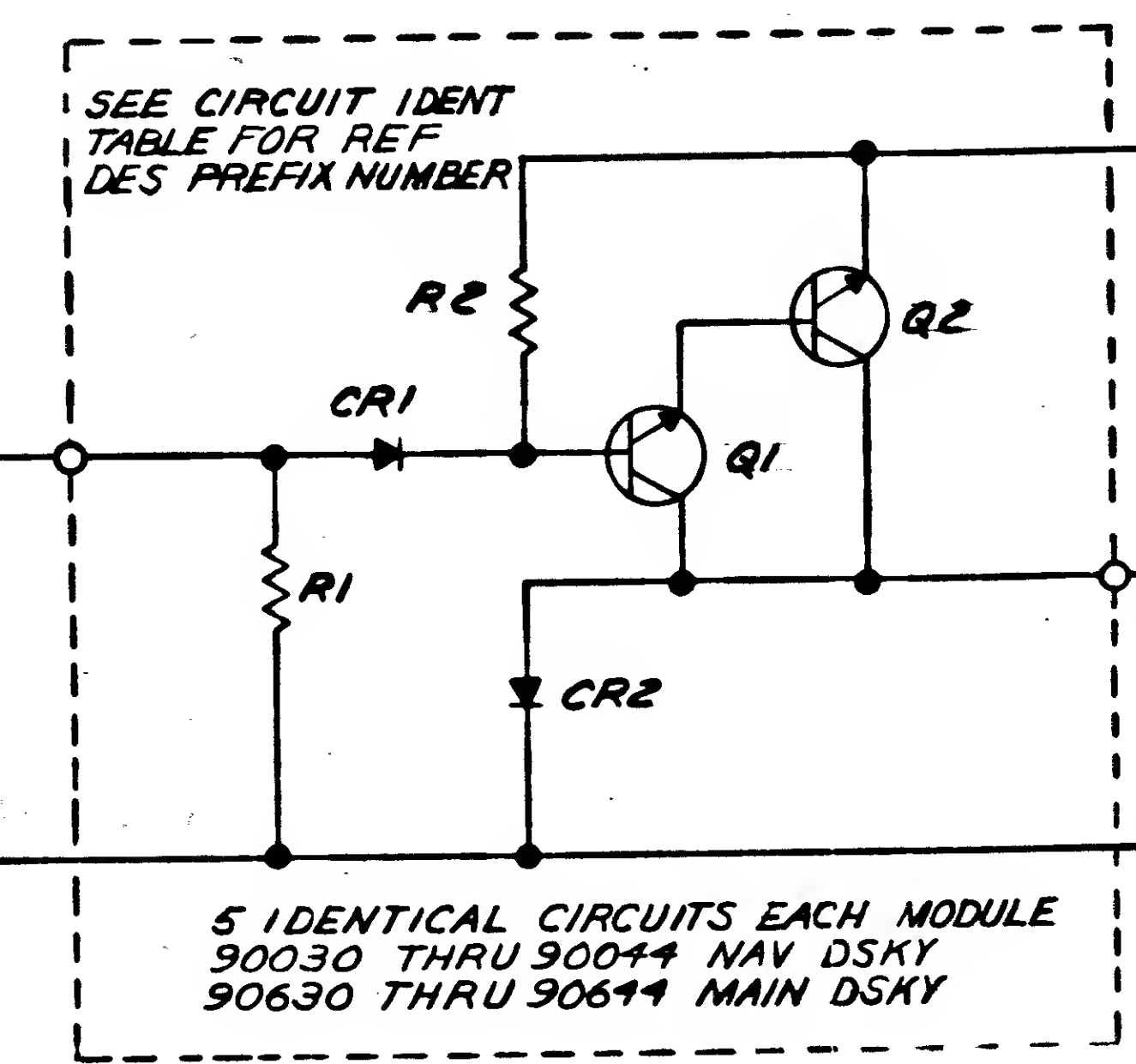
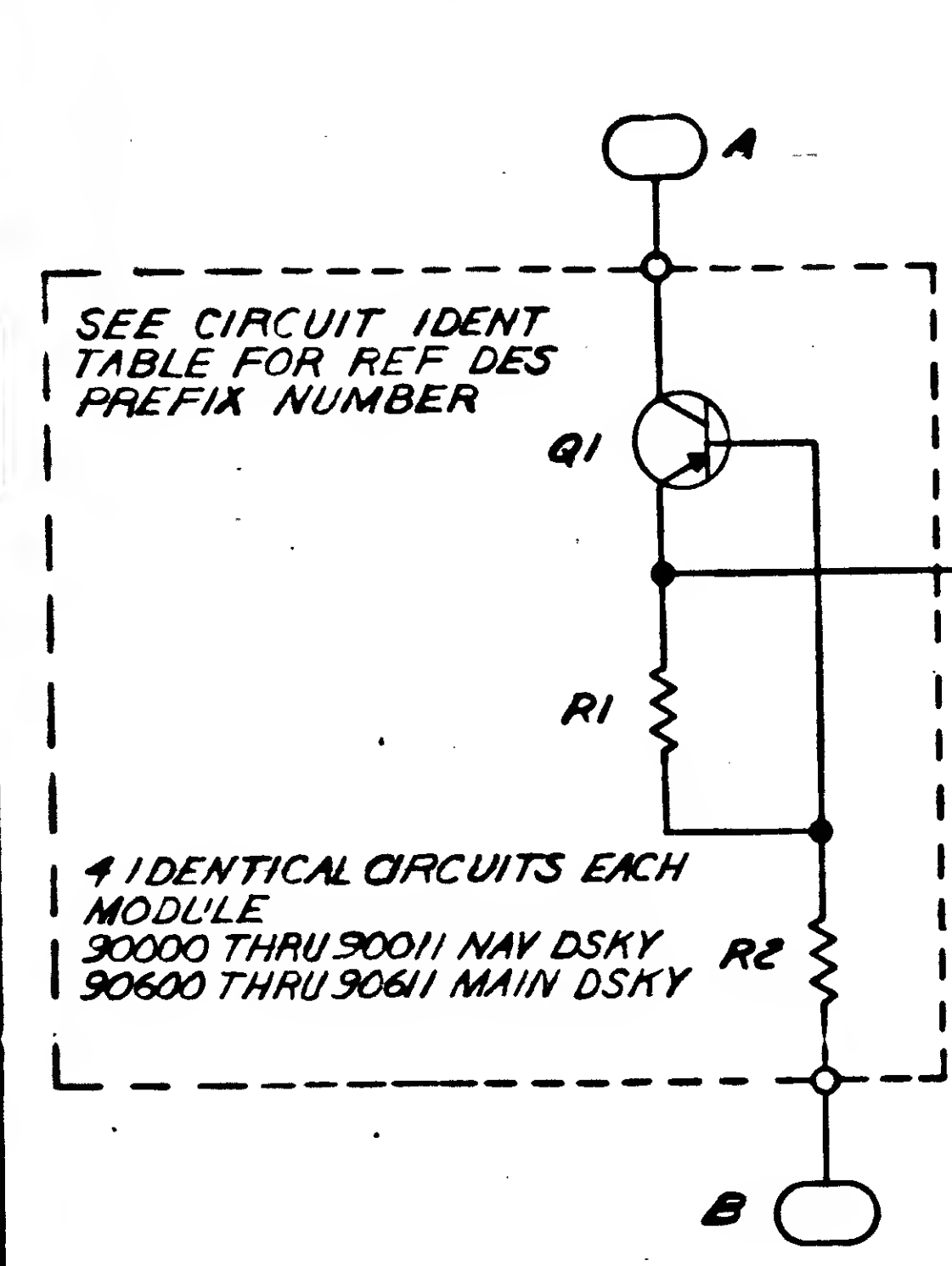
REFERENCES
1. ASSEMBLY DRAWING 1003530

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R1	1006750-58	RESISTOR	10K	±2%	1/4 W

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FRG NO.
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
SCHEMATIC DECODING MODULE ASSEMBLY D1-D6			
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ON FRACTIONS: DECIMALS: ANGLES: DO NOT SCALE THIS DRAWING. MATERIAL: HEAT TREATMENT: USED OR: APPLICATION:		NBA APPROVAL: [Signature] DATE: [Date] MATERIAL: [Material] SCALE: [Scale]	
NBA APPROVAL: [Signature] DATE: [Date] MATERIAL: [Material] SCALE: [Scale]		NBA APPROVAL: [Signature] DATE: [Date] MATERIAL: [Material] SCALE: [Scale]	

1. IDENTICAL CIRCUITS EACH MODULE
90000 THRU 90011 NAV DSKY
90600 THRU 90611 MAIN DSKY



NAV DSKY	MAIN DSKY
89 JM101	JS196
82 JM103	JS111
82 JM115	JS115
80 JM110	JS110
80 JM119	JS119
76 JM111	JS111
76 JM112	JS196
74 JM112	JS112
74 JM112	JS112
66 JM113	JS113
66 JM116	JS116
59 JM114	JS114
59 JM120	JS120
63 JM115	JS115
63 JM109	JS115
61 JM116	JS116
61 JM113	JS113
55 JM117	JS117
55 JM117	JS117
43 JM118	JS118
43 JM121	JS121
46 JM119	JS119
46 JM110	JS110
40 JM120	JS120
40 JM114	JS114
26 JM121	JS121
26 JM118	JS118

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
CR1	1006751	DIODE			
CR2					
CR3					
CR4					
CR5					
CR6					
CR7					
CR8					
CR9					
CR10					
CR11					
CR12					
CR13					
CR14					
CR15					
CR16					
CR17					
CR18					
CR19					
CR20					
CR21					
CR22					
CR23					
CR24					
CR25					
CR26					
CR27					
CR28	1006751	DIODE			

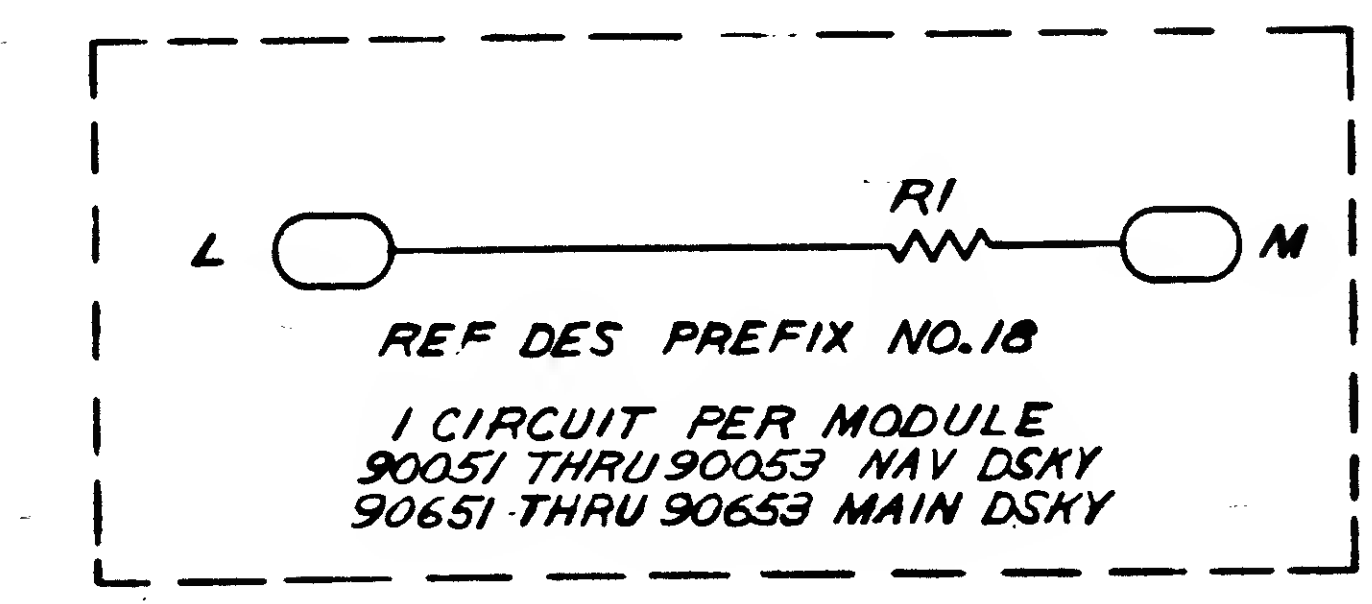
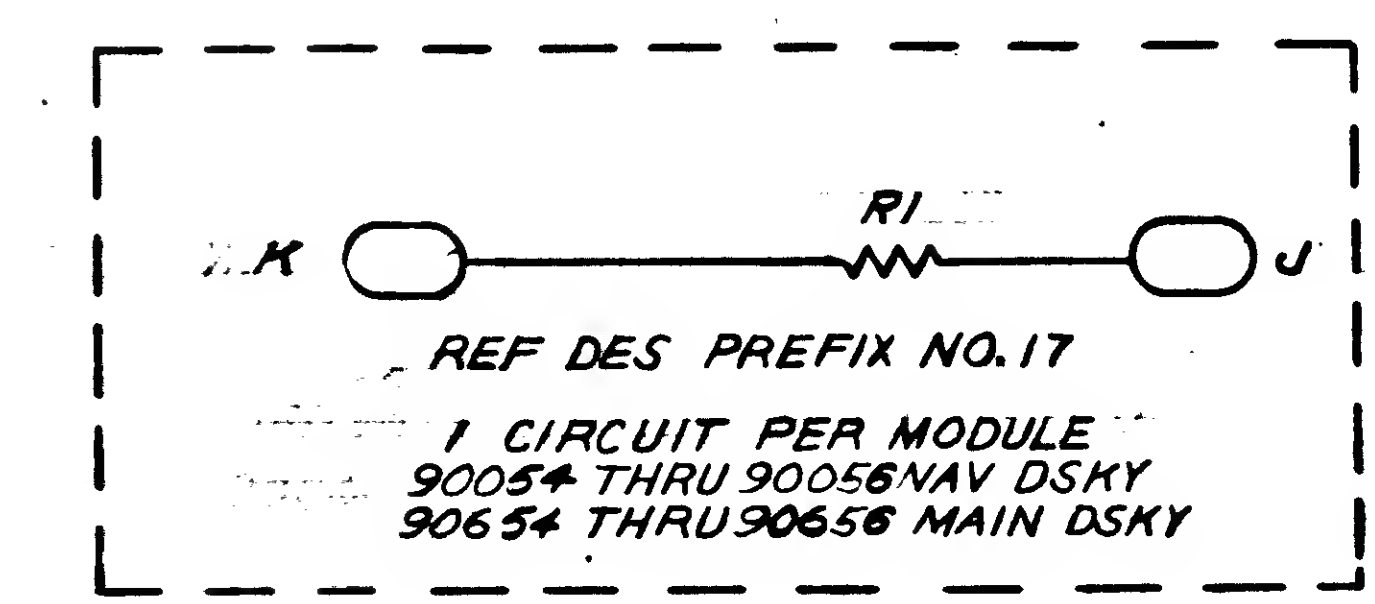
REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R1	1006750-39	RESISTOR	2000	±2%	1/4 W

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
Q1	1006753	TRANSISTOR			
R1	1006750-39	RESISTOR	2000	±2%	1/4 W
R2	1006750-15	RESISTOR	200	±2%	1/4 W

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
CR1	1006751	DIODE			
CR2	1006751	DIODE			
Q1	1006753	TRANSISTOR			
Q2	1006753	TRANSISTOR			
R1	1006750-15	RESISTOR	200	±2%	1/4 W
R2	1006750-39	RESISTOR	2000	±2%	1/4 W
R3	1006750-39	RESISTOR	2000	±2%	1/4 W
R4	1006750-39	RESISTOR	2000	±2%	1/4 W

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
Q1	1006753	TRANSISTOR			
Q2	1006752	TRANSISTOR			
Q3	1006752	TRANSISTOR			
R1	1006750-15	RESISTOR	200	±2%	1/4 W
R2	1006750-39	RESISTOR	2000	±2%	1/4 W
R3	1006750-39	RESISTOR	2000	±2%	1/4 W
R4	1006750-39	RESISTOR	2000	±2%	1/4 W
R5	1006750-39	RESISTOR	2000	±2%	1/4 W
R6	1006750-39	RESISTOR	2000	±2%	1/4 W
R7	1006750-39	RESISTOR	2000	±2%	1/4 W

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
CR1	1006751	DIODE			
CR2	1006751	DIODE			
Q1	1006752	TRANSISTOR			
Q2	1006752	TRANSISTOR			
R1	1006750-39	RESISTOR	2000	±2%	1/4 W
R2	1006750-39	RESISTOR	2000	±2%	1/4 W

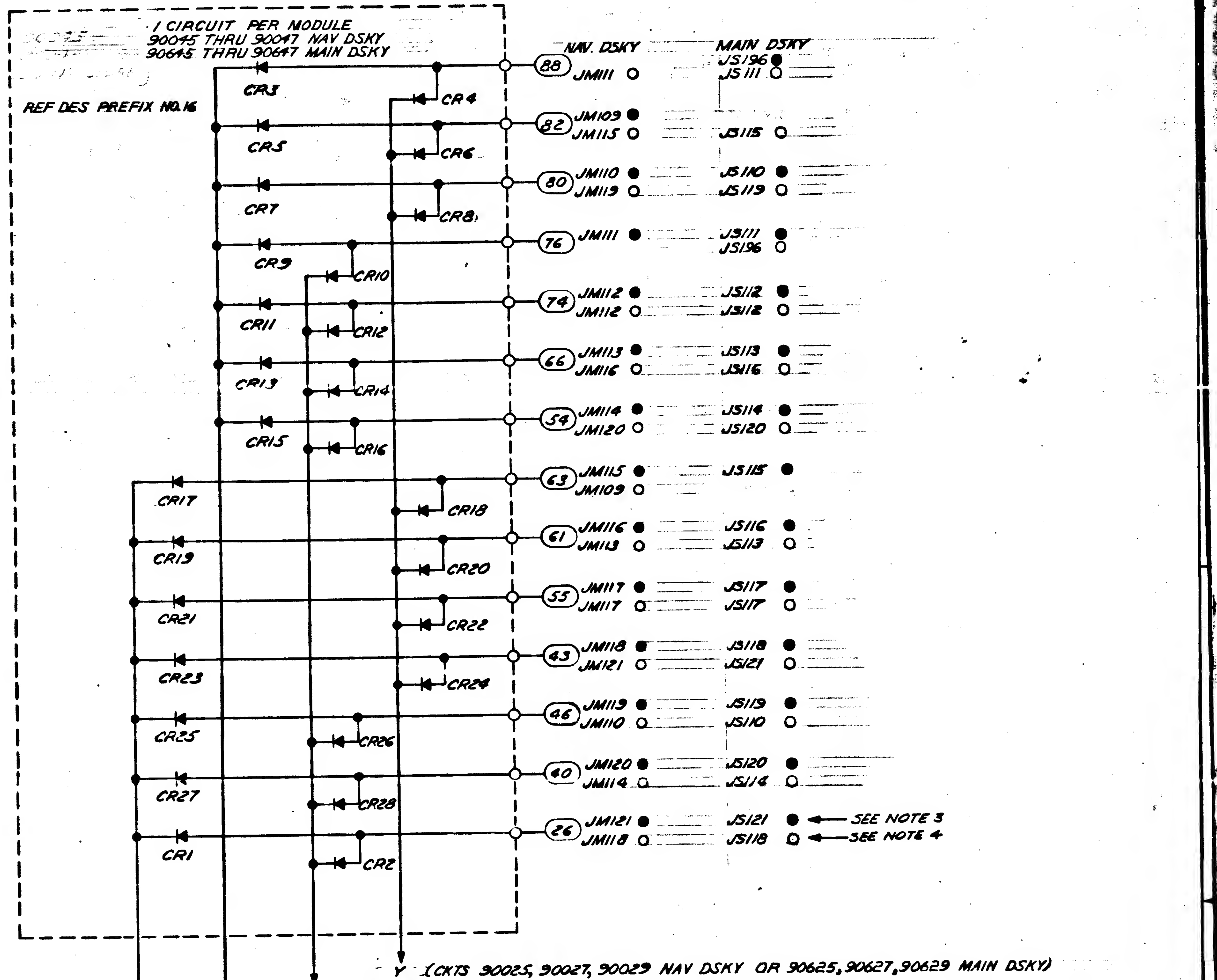
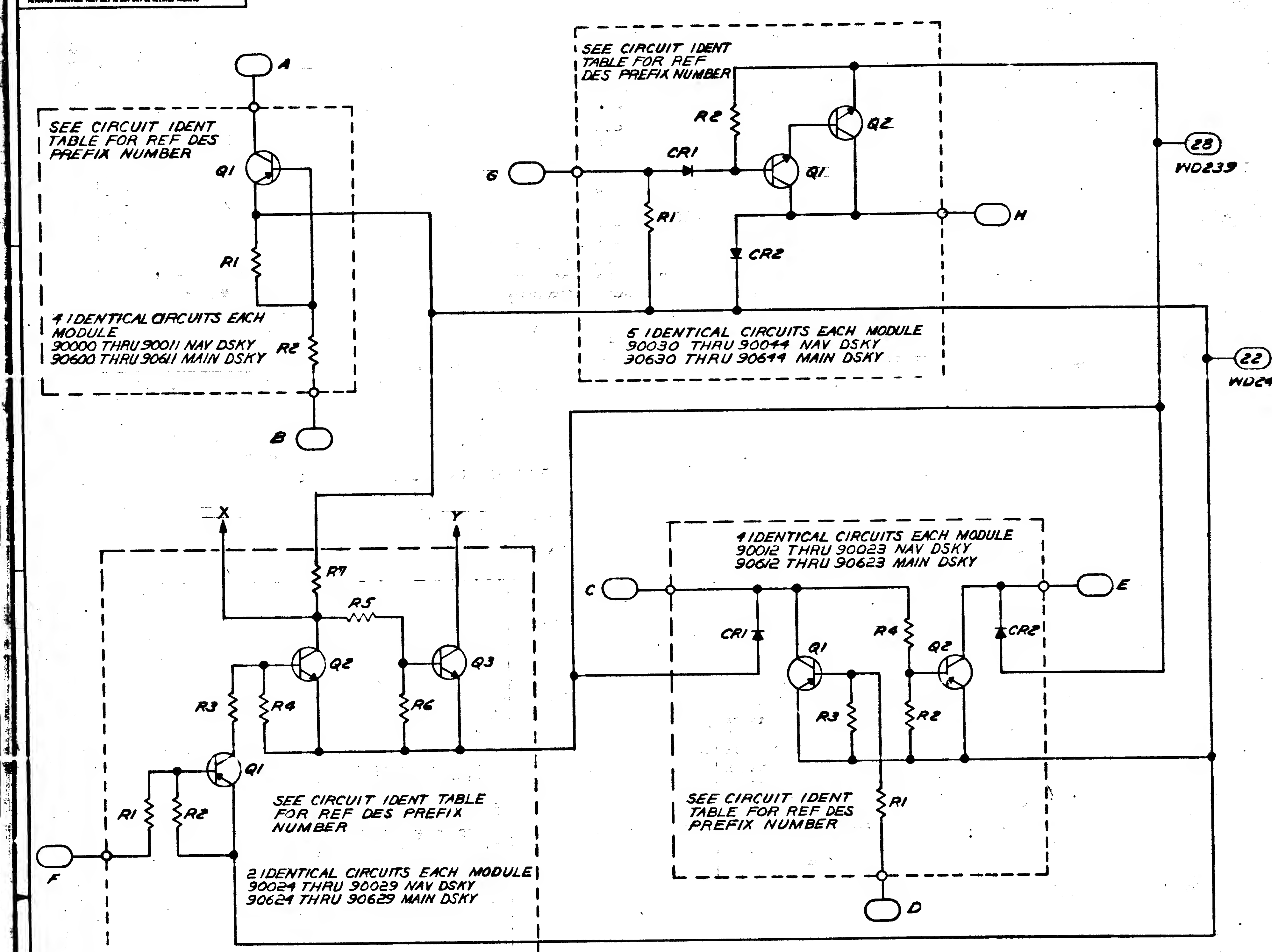


- NOTES
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
 - PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THE DESIGNATIONS WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
 - INDICATES SIGNALS ASSOCIATED WITH MODULE D1 NAV DSKY AND/OR MODULE D4 MAIN DSKY.
 - INDICATES SIGNALS ASSOCIATED WITH MODULE D2 NAV DSKY AND/OR MODULE D5 MAIN DSKY.

REFERENCES
1. ASSEMBLY DRAWING 1003530

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R1	1006750-58	RESISTOR	10K	±2%	1/4 W

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG NO.
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
SCHEMATIC DECODING MODULE DI-D6 AGC DSKY NAV 8-MAIN			
NADA APPROVAL		CODE IDENT NO.	NADA DRAWING NO.
MIL APPROVAL		SCALE	1006162
MIL APPROVAL		WT	SHEET 1 OF 3



REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
CR1	1006751	DIODE			
CR2					
CR3					
CR4					
CR5					
CR6					
CR7					
CR8					
CR9					
CR10					
CR11					
CR12					
CR13					
CR14					
CR15					
CR16					
CR17					
CR18					
CR19					
CR20					
CR21					
CR22					
CR23					
CR24					
CR25					
CR26					
CR27					
CR28	1006751	DIODE			

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
CR1	1006750-39	RESISTOR	2000	±2%	1/4 W

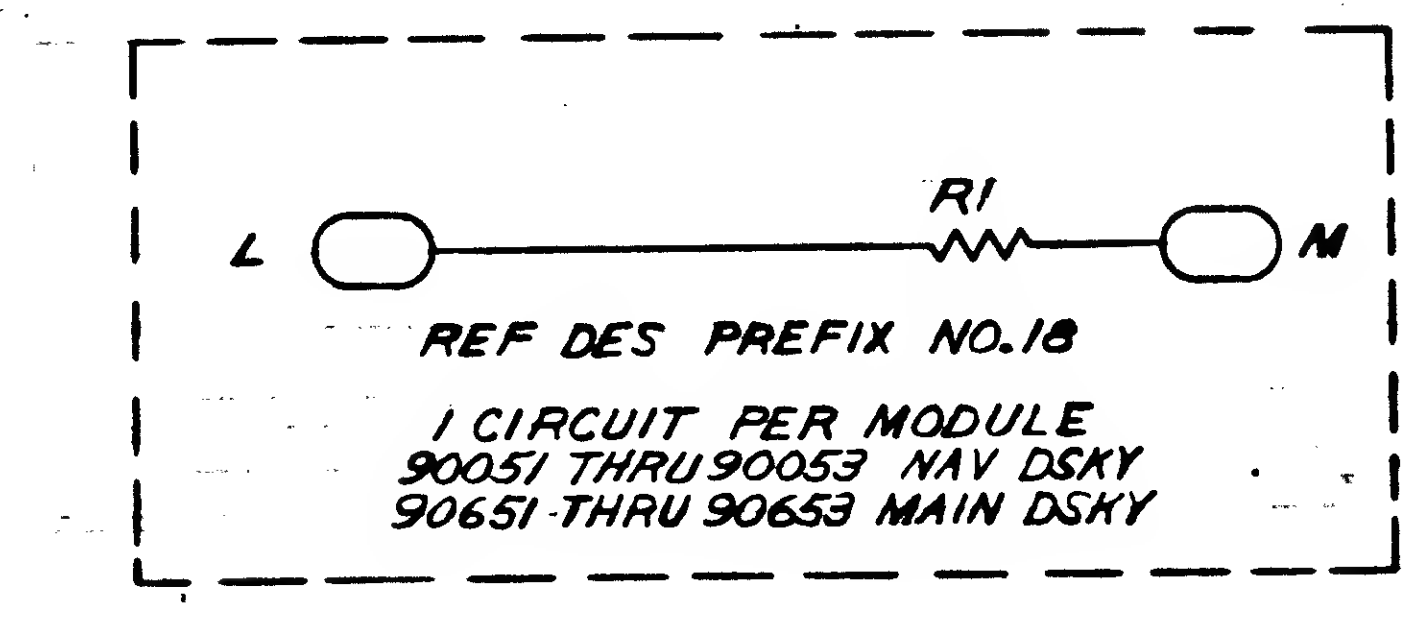
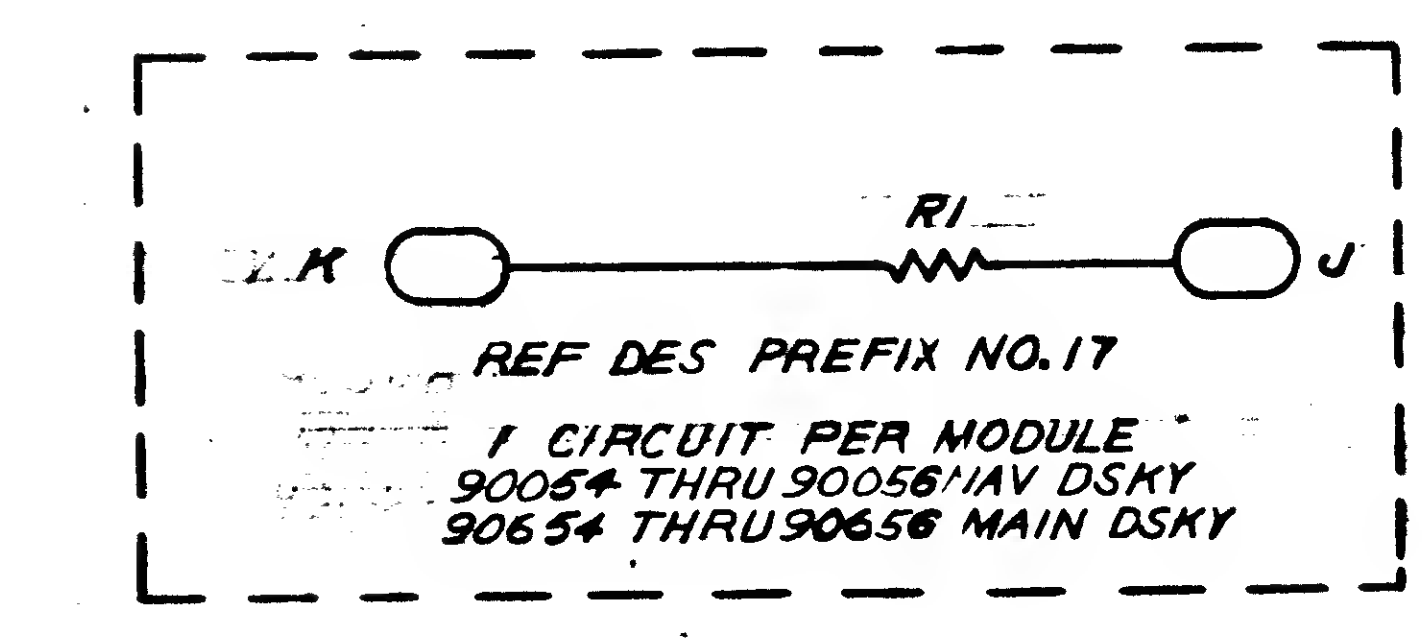
REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
Q1	1006753	TRANSISTOR			
R1	1006750-39	RESISTOR	2000	±2%	1/4 W
R2	1006750-15	RESISTOR	200	±2%	1/4 W

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
CR1	1006751	DIODE			
CR2	1006751	DIODE			
Q1	1006753	TRANSISTOR			
Q2	1006753	TRANSISTOR			
R1	1006750-15	RESISTOR	200	±2%	1/4 W
R2	1006750-39	RESISTOR	2000	±2%	1/4 W
R3	1006750-39	RESISTOR	2000	±2%	1/4 W
R4	1006750-39	RESISTOR	2000	±2%	1/4 W

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
Q1	1006753	TRANSISTOR			
Q2	1006752	TRANSISTOR			
Q3	1006752	TRANSISTOR			
R1	1006750-15	RESISTOR	200	±2%	1/4 W
R2	1006750-39	RESISTOR	2000	±2%	1/4 W
R3	1006750-39	RESISTOR	2000	±2%	1/4 W
R4	1006750-39	RESISTOR	2000	±2%	1/4 W
R5	1006750-39	RESISTOR	2000	±2%	1/4 W
R6	1006750-39	RESISTOR	2000	±2%	1/4 W
R7	1006750-39	RESISTOR	2000	±2%	1/4 W

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
CR1	1006751	DIODE			
CR2	1006751	DIODE			
Q1	1006752	TRANSISTOR			
Q2	1006753	TRANSISTOR			
R1	1006750-39	RESISTOR	2000	±2%	1/4 W
R2	1006750-39	RESISTOR	2000	±2%	1/4 W

- NOTES
- INTERPRET DRAWINGS IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 - PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THE DESIGNATIONS WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH
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 - INDICATES SIGNALS ASSOCIATED WITH MODULE D2 NAV DSKY AND/OR MODULE D5 MAIN DSKY

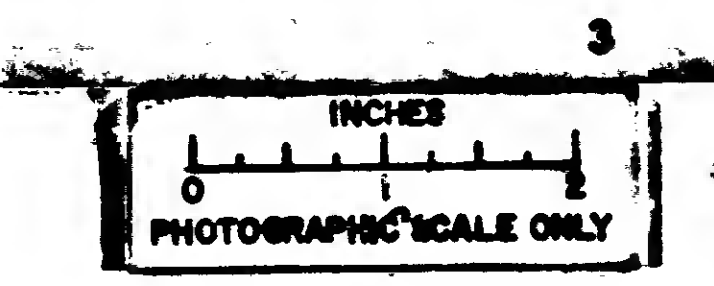


REFERENCES

1. ASSEMBLY DRAWING 1003530

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
CR1	1006750-58	RESISTOR	10K	±2%	1/4 W

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG NO
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
SCHEMATIC DECODING MODULE D1-D6 AGC DSKY NAV & MAIN			
NADA DRAWING NO. 1006162			
SCALE 1/1			
SHEET 1 OF 3			



NAV DSKY CIRCUIT IDENTIFICATION TABLE

REF DESIGNATION	CIRCUIT NO.	A	B	C	D	E	F	G	H	J	K	L	M
PREFIX NO.	MODULE D1 MODULE D2 MODULE D3	SIGNAL PIN NO.	SIGNAL PIN NO.	SIGNAL PIN NO.	SIGNAL PIN NO.	SIGNAL PIN NO.	SIGNAL PIN NO.	SIGNAL PIN NO.	SIGNAL PIN NO.	SIGNAL PIN NO.	SIGNAL PIN NO.	SIGNAL PIN NO.	SIGNAL PIN NO.
1	90000	JM193 90	PF229 91										
2	90001	JM192 93	PF230 89										
3	90002	JM191 98	PF231 95										
4	90003	JM190 99	PF232 97										
1	90004	JM189 90	PF233 91										
2	90005	JM188 93	PF234 89										
3	90006	JM187 98	PF235 95										
4	90007	JM186 99	PF236 97										
7	90008	JM185 90	PF237 91										
2	90009	JM184 93	PF238 89										
3	90010	JM184 98	PC244 95										
4	90011	—	99	—	97								
10	90012			JM141 6	PE214 1	JM163 3							
11	90013			JM142 8	PE215 9	JM164 11							
12	90014			JM143 14	PE216 17	JM165 15							
13	90015			JM144 18	PE217 19	JM166 23							
10	90016			JM145 6	PE218 1	JM167 3							
11	90017			JM146 8	PE219 9	JM168 11							
12	90018			JM147 14	PE220 17	JM169 15							
13	90019			JM148 18	PE221 19	JM170 23							
10	90020			JM149 6	PE222 1	JM171 3							
11	90021			JM150 8	PE223 9	JM172 11							
12	90022			JM151 14	PE224 17	JM173 15							
13	90023			—	18	—	19	—	23				
14	90024									PE225 20			
15	90025									PE226 41			
14	90026									PE227 29			
15	90027									PE228 41			
14	90028									—	29		
15	90029									—	41		
5	90030									JM109 49	JM122 50		
6	90031									JM110 57	JM123 58		
7	90032									JM111 65	JM124 60		
8	90033									JM112 71	JM125 77		
9	90034									JM113 81	JM126 85		
5	90035									JM114 49	JM127 50		
6	90036									JM115 57	JM128 58		
7	90037									JM116 65	JM129 60		
8	90038									JM117 71	JM130 77		
9	90039									JM118 81	JM131 85		
5	90040									JM119 49	JM132 50		
6	90041									JM120 57	JM133 58		
7	90042									JM121 65	JM134 60		
8	90043									—	71	—	77
9	90044									—	81	—	85
17	90054									—	—	—	—
17	90055									—	—	—	—
17	90056									—	—	—	—
18	90051									—	—	—	—
18	90052									—	—	—	—
18	90053									—	—	—	—

SPARE

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SPARE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG NO.		
LIST OF MATERIALS					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES * * * DO NOT SCALE THIS DRAWING MATERIAL HEAT TREATMENT NEXT ASSY USED ON APPLICATION				INSTRUMENTATION LAB COLUMBIA, MISS DRAWN BY J. G. Smith DATE 2-2-65 CHECKED BY J. G. Smith DATE 2-2-65 APPROVED BY J. G. Smith DATE 2-2-65 NASA APPROVAL MIL APPROVAL	MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC DECOMING MODULE ASSEMBLY DI-D6 CODE IDENT NO. E NASA DRAWING NO. 1006162 SCALE 1:1 SHEET 2 OF 3

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
2. DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE HOLE OR THE CENTER OF THE PIN.
3. DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE HOLE OR THE CENTER OF THE PIN.
4. DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE HOLE OR THE CENTER OF THE PIN.
5. DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE HOLE OR THE CENTER OF THE PIN.
6. DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE HOLE OR THE CENTER OF THE PIN.
7. DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE HOLE OR THE CENTER OF THE PIN.
8. DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE HOLE OR THE CENTER OF THE PIN.
9. DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE HOLE OR THE CENTER OF THE PIN.
10. DIMENSIONS ARE TO BE TAKEN TO THE CENTER OF THE HOLE OR THE CENTER OF THE PIN.

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NAV DSKY CIRCUIT IDENTIFICATION TABLE																							
REF DESIGNATION PREFIX NO.	CIRCUIT NO.			A		B		C		D		E		F		G		H		J		K	
	MODULE D1	MODULE D2	MODULE D3	SIGNAL NO.	PIN NO.	SIGNAL NO.	PIN NO.	SIGNAL NO.	PIN NO.	SIGNAL NO.	PIN NO.	SIGNAL NO.	PIN NO.	SIGNAL NO.	PIN NO.	SIGNAL NO.	PIN NO.	SIGNAL NO.	PIN NO.	SIGNAL NO.	PIN NO.	SIGNAL NO.	PIN NO.
1	90000			JM193	90	PF229	91																
2	90001			JM192	93	PF230	89																
3	90002			JM191	96	PF231	95																
4	90003			JM190	99	PF232	97																
5	90004			JM189	90	PF233	91																
6	90005			JM188	93	PF234	89																
7	90006			JM187	96	PF235	95																
8	90007			JM186	99	PF236	97																
9	90008			JM185	90	PF237	91																
10	90009			JM184	93	PF238	89																
11	90010			JM184	96	PC244	95																
12	90011				99		97																
13	90012							JM141	6	PE224	1	JM163	3										
14	90013							JM142	8	PE219	9	JM164	11										
15	90014							JM143	14	PE220	17	JM165	15										
16	90015							JM144	18	PE221	19	JM166	23										
17	90016							JM145	6	PE222	1	JM167	3										
18	90017							JM146	8	PE223	9	JM168	11										
19	90018							JM147	14	PE214	17	JM169	15										
20	90019							JM148	18	PE215	19	JM170	23										
21	90020							JM149	6	PE216	1	JM171	3										
22	90021							JM150	8	PE217	9	JM172	11										
23	90022							JM151	14	PE218	17	JM173	15										
24	90023								18		19		23										
25	90024													PE228	29								
26	90025													PE227	41								
27	90026													PE226	29								
28	90027													PE225	41								
29	90028														29								
30	90029														41								
31	90030													JM109	49	JM122	50						
32	90031													JM110	57	JM123	58						
33	90032													JM111	65	JM124	60						
34	90033													JM112	71	JM125	77						
35	90034													JM113	81	JM126	85						
36	90035													JM114	49	JM127	50						
37	90036													JM115	57	JM128	58						
38	90037													JM116	65	JM129	60						
39	90038													JM117	71	JM130	77						
40	90039													JM118	81	JM131	85						
41	90040													JM119	49	JM132	50						
42	90041													JM120	57	JM133	58						
43	90042													JM121	65	JM134	60						
44	90043														71		77						
45	90044														81		85						
46	90054																	JM208	100	WD241	67		
47	90055																		100		67		
48	90056																				67		
49	90051																					84	94
50	90052																					84	94
51	90053																					84	94

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	PIN NO.
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
SCHEMATIC DECODING MODULE DI-D6 AGC DSKY, NAV 8-MAIN			
NASA APPROVAL			
E 1006162			
SHEET 2 OF 3			

1. THIS DRAWING IS THE PROPERTY OF NASA. IT IS TO BE USED FOR THE PURPOSES SPECIFIED IN THE CONTRACT. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM NASA.

REVISIONS			
NO.	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TORR 04330	11-24-61	WJH
B	REVISED PER TORR 04730	11-24-61	WJH

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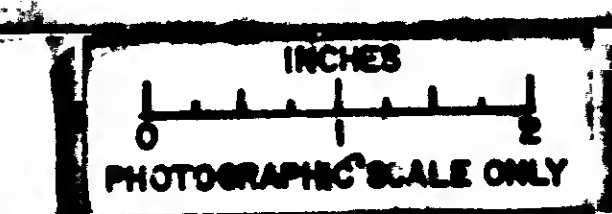
SPARE

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NAV DSKY CIRCUIT IDENTIFICATION TABLE																							
REF DESIGNATION PREFIX NO.	CIRCUIT NO.			A		B		C		D		E		F		G		H		J		K	
	MODULE DI	MODULE DE	MODULE DS	SIGNAL	PIN NO.	SIGNAL	PIN NO.	SIGNAL	PIN NO.	SIGNAL	PIN NO.	SIGNAL	PIN NO.	SIGNAL	PIN NO.	SIGNAL	PIN NO.	SIGNAL	PIN NO.	SIGNAL	PIN NO.	SIGNAL	PIN NO.
1	90000			JM193	90	PF229	91																
2	90001			JM192	99	PF230	89																
3	90002			JM191	98	PF231	95																
4	90003			JM190	97	PF232	87																
1	90004			JM189	90	PF233	91																
2	90005			JM188	93	PF234	89																
3	90006			JM187	98	PF235	95																
4	90007			JM186	99	PF236	97																
1		90008		JM185	90	PF237	91																
2		90009		JM184	93	PF238	89																
3		90010		JM183	98	PF239	95																
4		90011		JM182	99	PF240	97																
10	90012							JM141	6	PE224	1	JM183	3										
11	90013							JM142	8	PE219	9	JM184	11										
12	90014							JM143	14	PE220	17	JM185	15										
13	90015							JM144	18	PE221	19	JM186	23										
10		90016						JM145	6	PE222	1	JM187	3										
11		90017						JM146	8	PE223	9	JM188	11										
12		90018						JM147	14	PE214	17	JM189	15										
13		90019						JM148	18	PE215	19	JM190	23										
10		90020						JM149	6	PE216	1	JM191	3										
11		90021						JM150	8	PE217	9	JM192	11										
12		90022						JM151	14	PE218	17	JM193	15										
13		90023							18		19		23										
14	90024													PE226	29								
15	90025													PE227	41								
14		90026												PE226	29								
15		90027												PE225	41								
14			90028												29								
15			90029												41								
5	90030													JM109	49	JM122	50						
6	90031													JM110	57	JM123	58						
7	90032													JM111	65	JM124	60						
8	90033													JM112	71	JM125	77						
9	90034													JM113	81	JM126	85						
5		90035												JM114	49	JM127	50						
6		90036												JM115	57	JM128	58						
7		90037												JM116	65	JM129	60						
8		90038												JM117	71	JM130	77						
9		90039												JM118	81	JM131	85						
5		90040												JM119	49	JM132	50						
6		90041												JM120	57	JM133	58						
7		90042												JM121	65	JM134	60						
8		90043													71		77						
9		90044													81		85						
17	90054															JM208	100	WD241	67				
17		90055															100		67				
17			90056																67				
18	90051																				84		94
18		90052																			84		94
18		90053																			84		94

MASTER



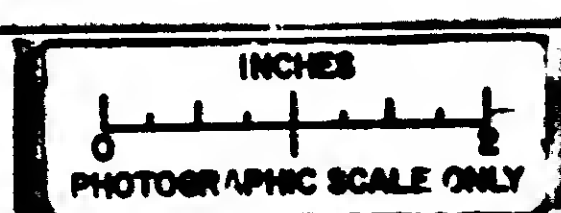
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG NO.
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
SCHEMATIC DECODING MODULE DI-D6 AGC DSKY, NAV 8 MAIN			
NADA DRAWING NO. 1006162			
E			
SHEET 2 OF 3			

MAIN DSKY CIRCUIT IDENTIFICATION TABLE

REF DESIGNATION	CIRCUIT NO.	A	B	C	D	E	F	G	H	J	K	L	M
PREFIX NO.	MODULE NO. D4 D5 D6	SIGNAL P/N NO.	SIGNAL P/N NO.	SIGNAL P/N NO.	SIGNAL P/N NO.	SIGNAL P/N NO.	SIGNAL P/N NO.	SIGNAL P/N NO.	SIGNAL P/N NO.	SIGNAL P/N NO.	SIGNAL P/N NO.	SIGNAL P/N NO.	SIGNAL P/N NO.
1	90600	JS 193 90	PF 229 91										
2	90601	JS 192 93	PF 230 89										
3	90602	JS 191 98	PF 231 95										
4	90603	JS 190 99	PF 232 97										
1	90604	JS 189 90	PF 233 91										
2	90605	JS 188 93	PF 234 89										
3	90606	JS 187 98	PF 235 95										
4	90607	JS 186 99	PF 236 97										
1	90608	JS 185 90	PF 237 91										
2	90609	JS 184 93	PF 238 89										
3	90610	JS 184 98	PC 244 95										
4	90611	JS 184 99	PC 244 97										
10	90612			JS 141 6	PE 224 1	JS 163 3							
11	90613			JS 142 8	PE 219 9	JS 164 11							
12	90614			JS 143 14	PE 220 17	JS 165 15							
13	90615			JS 144 18	PE 221 19	JS 166 23							
10	90616			JS 145 6	PE 222 1	JS 167 3							
11	90617			JS 146 8	PE 223 9	JS 168 11							
12	90618			JS 147 14	PE 214 17	JS 169 15							
13	90619			JS 148 18	PE 215 19	JS 170 23							
10	90620			JS 149 6	PE 216 1	JS 171 3							
11	90621			JS 150 8	PE 217 9	JS 172 11							
12	90622			JS 151 14	PE 219 17	JS 173 15							
13	90623			JS 151 18	PE 219 19	JS 173 23							
14	90624					PE 228 29							
15	90625					PE 227 41							
14	90626					PE 226 29							
15	90627					PE 225 41							
14	90628					PE 225 29							
15	90629					PE 225 41							
5	90630					JS 196 49	JS 122 50						
6	90631					JS 110 57	JS 123 58						
7	90632					JS 111 65	JS 124 60						
8	90633					JS 112 71	JS 125 77						
9	90634					JS 113 81	JS 126 85						
5	90635					JS 114 49	JS 127 50						
6	90636					JS 115 57	JS 128 58						
7	90637					JS 116 65	JS 129 60						
8	90638					JS 117 71	JS 130 77						
9	90639					JS 118 81	JS 131 85						
5	90640					JS 119 49	JS 132 50						
6	90641					JS 120 57	JS 133 58						
7	90642					JS 121 65	JS 134 60						
8	90643					JS 121 71	JS 134 77						
9	90644					JS 121 81	JS 134 85						
17	90654					JAX08 100	WD241 67						
17	90655					RD422 100	WD239 67						
17	90656					WD241 100	WD239 67						
18	90651							WD241 84	JAX09 94				
18	90652							JAX09 84	WD239 94				
18	90653							84					

MASTER

CITY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG. NO.
LIST OF MATERIALS			
INSTRUMENTATION LAB COMPTON, TEXAS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
SCHEMATIC DECODING MODULE DI-D6 AGC DSKY, NAV BMAIN			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL		NASA APPROVAL <i>[Signature]</i> DATE 1-15-65 BY <i>[Signature]</i>	
HEAT TREATMENT		NASA DRAWING NO. 1006162	
NEXT APPR. USED ON		SCALE	
APPLICATION		SHEET 3 OF 3	



MAIN DSKY CIRCUIT IDENTIFICATION TABLE

REF DESIGNATION	CIRCUIT NO.	A	B	C	D	E	F	G	H	J	K	L	M
PREFIX NO.	MODULE NO.	SIGNAL P/N NO.	SIGNAL P/N NO.	SIGNAL P/N NO.	SIGNAL P/N NO.	SIGNAL P/N NO.	SIGNAL P/N NO.	SIGNAL P/N NO.	SIGNAL P/N NO.	SIGNAL P/N NO.	SIGNAL P/N NO.	SIGNAL P/N NO.	SIGNAL P/N NO.
1	90600	JS193 90 PF229 91											
2	90601	JS192 93 PF230 89											
3	90602	JS191 98 PF231 95											
4	90603	JS190 99 PF232 97											
1	90604	JS189 90 PF233 91											
2	90605	JS188 93 PF234 89											
3	90606	JS187 98 PF235 95											
4	90607	JS186 99 PF236 97											
1	90608	JS185 90 PF237 91											
2	90609	JS184 93 PF238 89											
3	90610	JS184 98 PC244 95											
4	90611	99 97											
10	90612		JS141 6 PE214 1 JS163 3										
11	90613		JS142 8 PE215 9 JS164 11										
12	90614		JS143 14 PE216 17 JS165 15										
13	90615		JS144 18 PE217 19 JS166 23										
10	90616		JS145 6 PE218 1 JS167 3										
11	90617		JS146 8 PE219 9 JS168 11										
12	90618		JS147 14 PE220 17 JS169 15										
13	90619		JS148 18 PE221 19 JS170 23										
10	90620		JS149 6 PE222 1 JS171 3										
11	90621		JS150 8 PE223 9 JS172 11										
12	90622		JS151 14 PE224 17 JS173 15										
13	90623		18 19 23										
14	90624		PE225 29										
15	90625		PE226 41										
14	90626		PE227 29										
15	90627		PE228 41										
14	90628		29										
15	90629		41										
5	90630		JS196 49 JS122 50										
6	90631		JS110 57 JS123 58										
7	90632		JS111 65 JS124 60										
8	90633		JS112 71 JS125 77										
9	90634		JS113 81 JS126 85										
5	90635		JS114 49 JS127 50										
6	90636		JS115 57 JS128 58										
7	90637		JS116 65 JS129 60										
8	90638		JS117 71 JS130 77										
9	90639		JS118 81 JS131 85										
5	90640		JS119 49 JS132 50										
6	90641		JS120 57 JS133 58										
7	90642		JS121 65 JS134 60										
8	90643		71 77										
9	90644		81 85										
17	90654		JAX08 100 WD241 67										
17	90655		RD#22 100 YDE39 67										
17	90656		100 67										
18	90651		WD241 84 JAX09 94										
18	90652		JAX09 84 WD239 94										
18	90653		84 94										

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QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	PWD NO.
LIST OF MATERIALS			
M I T			
INSTRUMENTATION LAB			
HOUSTON, TEXAS			
SCHEMATIC			
DECODING MODULE ASSEMBLY DI-D6			
NASA DRAWING NO. 1006162			
SHEET 3 OF 3			

REVISIONS 0362			
REV	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 04730	11-20-60	W. J. ...
B	REVISED PER TDRR 04730	11-20-60	W. J. ...

MAIN DSKY CIRCUIT IDENTIFICATION TABLE																											
REF DESIGNATION PREFIX NO.	CIRCUIT NO.			A		B		C		D		E		F		G		H		J		K		L		M	
	MODULE D4	MODULE D5	MODULE D6	SIGNAL	PIN NO.	SIGNAL	PIN NO.	SIGNAL	PIN NO.	SIGNAL	PIN NO.	SIGNAL	PIN NO.	SIGNAL	PIN NO.	SIGNAL	PIN NO.	SIGNAL	PIN NO.	SIGNAL	PIN NO.	SIGNAL	PIN NO.	SIGNAL	PIN NO.	SIGNAL	PIN NO.
1	90600			JS 193	90	PF229	91																				
2	90601			JS 192	93	PF230	89																				
3	90602			JS 191	98	PF231	95																				
4	90603			JS 190	99	PF232	97																				
1		90604		JS 189	90	PF233	91																				
2		90605		JS 188	93	PF234	89																				
3		90606		JS 187	98	PF235	95																				
4		90607		JS 186	99	PF236	97																				
1			90608	JS 185	90	PF237	91																				
2			90609	JS 184	93	PF238	89																				
3			90610	JS 184	98	PC244	95																				
4			90611		99		97																				
10	90612							JS 141	6	PE224	1	JS 163	3														
11	90613							JS 142	8	PE219	9	JS 164	11														
12	90614							JS 143	14	PE220	17	JS 165	15														
13	90615							JS 144	18	PE221	19	JS 166	23														
10		90616						JS 145	6	PE222	1	JS 167	3														
11		90617						JS 146	8	PE223	9	JS 168	11														
12		90618						JS 147	14	PE214	17	JS 169	15														
13		90619						JS 148	18	PE215	19	JS 170	23														
10			90620					JS 149	6	PE216	1	JS 171	3														
11			90621					JS 150	8	PE217	9	JS 172	11														
12			90622					JS 151	14	PE218	17	JS 173	15														
13			90623						18		19		23														
14	90624													PE228	29												
15	90625													PE227	41												
14		90626												PE226	29												
15		90627												PE225	41												
14			90628												29												
15			90629												41												
5	90630													JS 196	49	JS 122	50										
6	90631													JS 110	57	JS 123	58										
7	90632													JS 111	65	JS 124	60										
8	90633													JS 112	71	JS 125	77										
9	90634													JS 113	81	JS 126	85										
5		90635												JS 114	49	JS 127	50										
6		90636												JS 115	57	JS 128	58										
7		90637												JS 116	65	JS 129	60										
8		90638												JS 117	71	JS 130	77										
9		90639												JS 118	81	JS 131	85										
5			90640											JS 119	49	JS 132	50										
6			90641											JS 120	57	JS 133	58										
7			90642											JS 121	65	JS 134	60										
8			90643												71		77										
9			90644												81		85										
17	90654																	JAX08	100	WD241	67						
17		90655																RD422	100	WD239	67						
17			90656																	100			67				
18	90651																										
18		90652																									
18			90653																								

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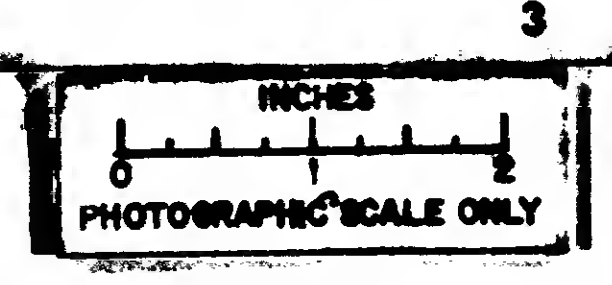
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QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG NO.
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
SCHEMATIC DECODING MODULE DI-D6 AGC DSKY, NAV 8MAIN			
NITA INSTRUMENTATION LAB HOUSTON, TEXAS DRAWN BY: J. J. ... CHECKED BY: J. J. ... APPROVAL BY: J. J. ...		CODE IDENT NO. E	NASA DRAWING NO. 1006162
NEXT APP. USED ON		SCALE	SHEET 3 OF 3

NOTICE - UNDER GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSES OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER. THE UNITED STATES GOVERNMENT MAKES NO WARRANTY, REPRESENTATION, OR WARRANTY OF ANY KIND THAT THE DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE TRUE OR THAT THEY WILL SUPPLY THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA TO BE OBTAINED BY IMPLICATION OR OTHERWISE AS IS AT HAND. NO PART OF THIS DRAWING, SPECIFICATION, OR OTHER DATA IS TO BE REPRODUCED IN ANY MANNER OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE GOVERNMENT. NO PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THEREBY.

[illegible]

- REFERENCE
1 ASSEMBLY DRAWING NO. 1003532

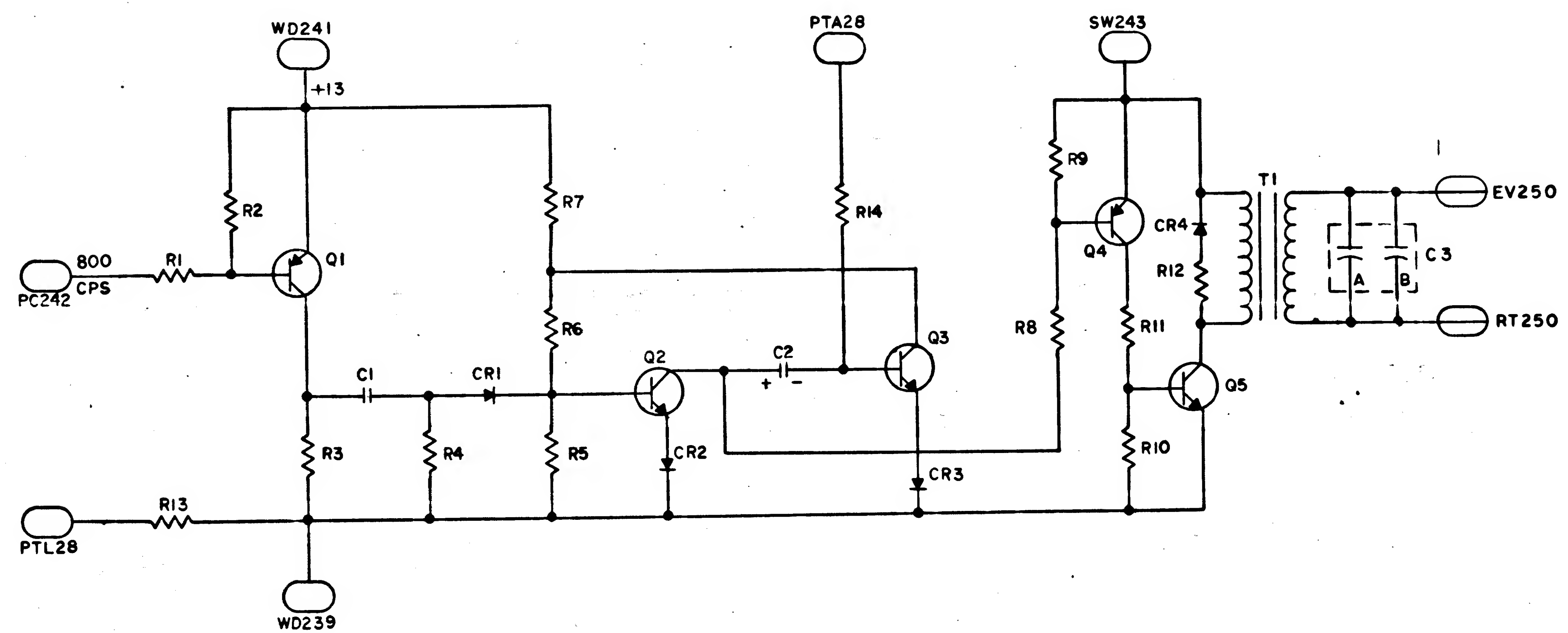
R3	DASH NO.	VALUE
1006750	- 19	300
	- 22	390
	- 25	510
	- 27	620
	- 28	680
	- 29	750
	- 30	820
	- 31	910
	- 32	1000
	- 34	1200
	- 36	1500

1992

		QTY REQ		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIN NO	
						LIST OF MATERIALS			
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ±		NIT INSTRUMENTATION LAB CAMBRIDGE, MASS DES. NO. _____ CONTRACT _____ DRAWN BY <u>D. J. Davis</u> DATE <u>8 OCT 68</u> CHECKED <u>R. B. Smith</u> DATE <u>10 OCT 68</u> APPROVAL <u>C. H. M. 23 Oct 68</u> APPROVAL <u>C. H. M. 23 Oct 68</u>		MANNED SPACECRAFT CENTER HOUSTON, TEXAS <h1 style="text-align: center;">SCHEMATIC</h1> <h2 style="text-align: center;">POWER SUPPLY ASSEMBLY</h2> <h3 style="text-align: center;">AGC DSKY NAV & MAIN</h3>			
		DO NOT SCALE THIS DRAWING MATERIAL		HEAT TREATMENT _____ NASA APPROVAL <u>K. S. Davis</u> MIT APPROVAL <u>J. P. Smith</u>		CODE IDENT NO.		SIZE	NASA DRAWING NO.
		NEXT ASSY USED ON		MIT APPROVAL <u>D. J. Davis</u>		D		1006193	
APPLICATION		FINAL FINISH		MIT APPROVAL <u>D. J. Davis</u>		SCALE NONE		WT	SHEET 1 OF

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS ON FRACTIONS DECIMALS ANGLES. DO NOT SCALE THIS DRAWING. MATERIAL. HEAT TREATMENT. FINISH. APPLICATION. NEXT ASSY. USED ON. PHOTOGRAPHIC SCALE ONLY.

REF DESIGNATION	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R1	1006750-15	RESISTOR	200	2%	1/4 W
R2	-39		2K		
R3	-56		10K		
R4					
R5					
R6					
R7	-56		10K		
R8	-43		3K		
R9	-39		2K		
R10	1006750-24		470	2%	1/4 W
R11	1010389-43		300	1%	3 W
R12	1010389-8		10	1%	3 W
R13	1006750-56		10K	2%	1/4 W
R14	1006750-56	RESISTOR	10K	2%	1/4 W
C1	1006793-24	CAPACITOR	5100uuf	2%	300 V
C2	1006755-102	CAPACITOR	.047 uf	10%	50 V
C3	1006814	II			
Q1	1006753	TRANSISTOR			
Q2	1006752				
Q3	1006752				
Q4	1006829				
Q5	1006827	TRANSISTOR			
CR1	1006751	DIODE			
CR2					
CR3					
CR4	1006751	DIODE			
T1	1006726	TRANSFORMER			

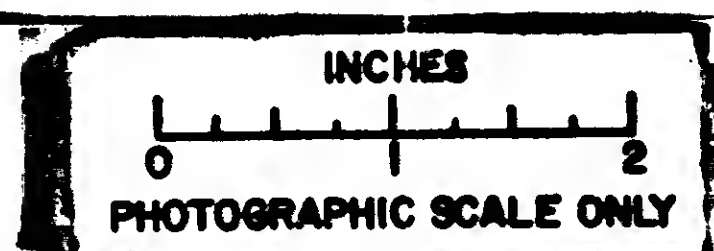


- NOTES
- PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
 - INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
 - RESISTOR VALUES ARE EXPRESSED IN OHMS.

REFERENCE
1 ASSEMBLY DRAWING NO. 1003532

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG. NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN BY: [Signature] CHECKED BY: [Signature] APPROVAL: [Signature]		SCHEMATIC POWER SUPPLY ASSEMBLY AGC DISPLAY & KEYBOARD	
NASA APPROVAL: [Signature] MIT APPROVAL: [Signature] MIT APPROVAL: [Signature]		CODE IDENT NO. [Blank] SCALE NONE	NASA DRAWING NO. 1006163 SHEET 1 OF 1



REVISIONS 03225			
SYM	DESCRIPTION	DATE	APPROVAL
A	REDRAWN WITH CHANGE PER TDR 04/76	11-18-63	W.H.

(A) REPLACED WITH CHANGE BY REV B

1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN
 PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY
 DESIGNATION OR BOTH

2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
 PRESCRIBED BY MIL-D-70327

3. RESISTOR VALUES ARE EXPRESSED IN OHMS

INCHES

0 1 2

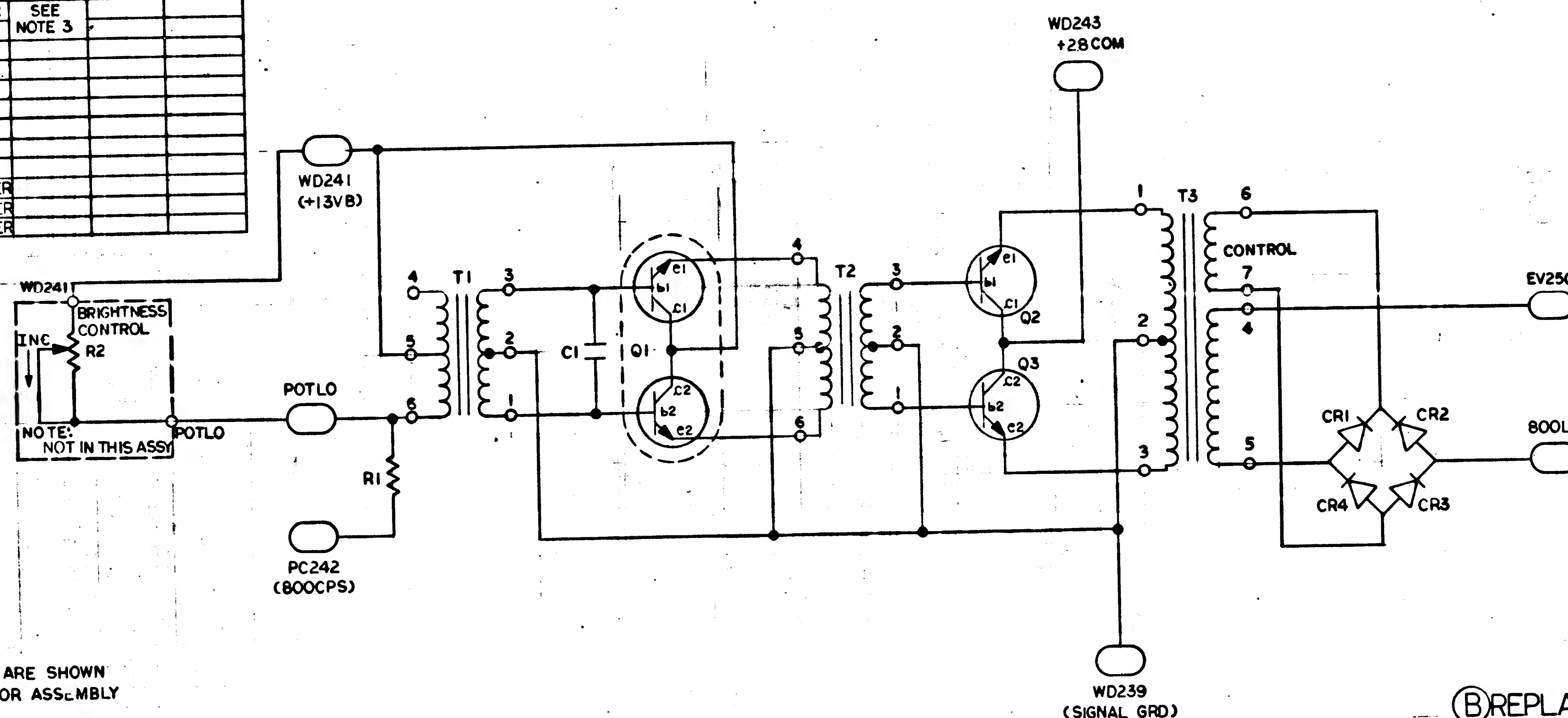
PHOTOGRAPHIC SCALE ONLY

		QTY REQ		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		F/W	
		LIST OF MATERIALS							
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ± DO NOT SCALE THIS DRAWING MATERIAL		M I T INSTRUMENTATION LAB CAMBRIDGE, MASS DES. NO. CONTRACT DRAWN <i>W. Carlson</i> DATE <i>10/25/63</i> CHECKED <i>D. Smith</i> DATE <i>11/3/63</i> APPROVAL APPROVAL <i>E. Egan & Hall 10/28/63</i>		MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC POWER SUPPLY ASSEMBLY AGC DISPLAY & KEYBOARD			
		HEAT TREATMENT		NASA APPROVAL <i>W. J. ...</i>		CODE IDENT NO.		NASA DRAWING NO.	
NEXT ASSY USED ON		FINAL FINISH		MIT APPROVAL <i>W. Ruffalo 10/28/63</i>		SIZE D		1006163	
APPLICATION				MIT APPROVAL		SCALE NONE		WT	
								SHEET 1 OF	

NOTICE - When instrument drawings, specifications, or other data are used, they are shown only as a reference. The user is responsible for the accuracy of the data and for the proper interpretation of the data. The user is also responsible for the proper use of the data.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
B	REDRAWN WITH CHANGES PER TORR 04/70	11-24-63	W.K.

REF DESIGNATION	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R1	1006730-35	RESISTOR	1.5V	2%	1/4W
R2	1006736	NOT ON THIS ASSY			
C1	1006793-19	CAPACITOR	.0033		50V
Q1	1010376-1	TRANSISTOR			
Q2	1010269-2	TRANSISTOR	SEE NOTE 3		
Q3	1010269-2	TRANSISTOR			
CR1	1006751	DIODE			
CR2	1006751	DIODE			
CR3	1006751	DIODE			
CR4	1006751	DIODE			
T1		TRANSFORMER			
T2		TRANSFORMER			
T3		TRANSFORMER			



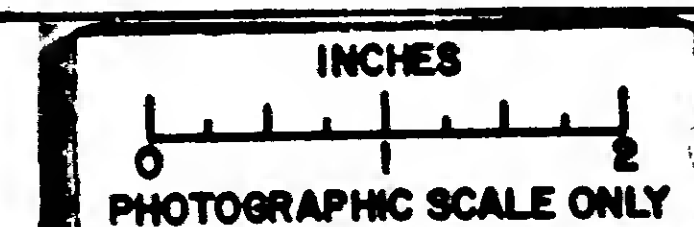
NOTES

- PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- Q2 AND Q3 ARE MATCHED PAIRS.

REFERENCE
1 ASSEMBLY DRAWING NO. '003532

ⓑ REPLACES REV A WITH CHANGES

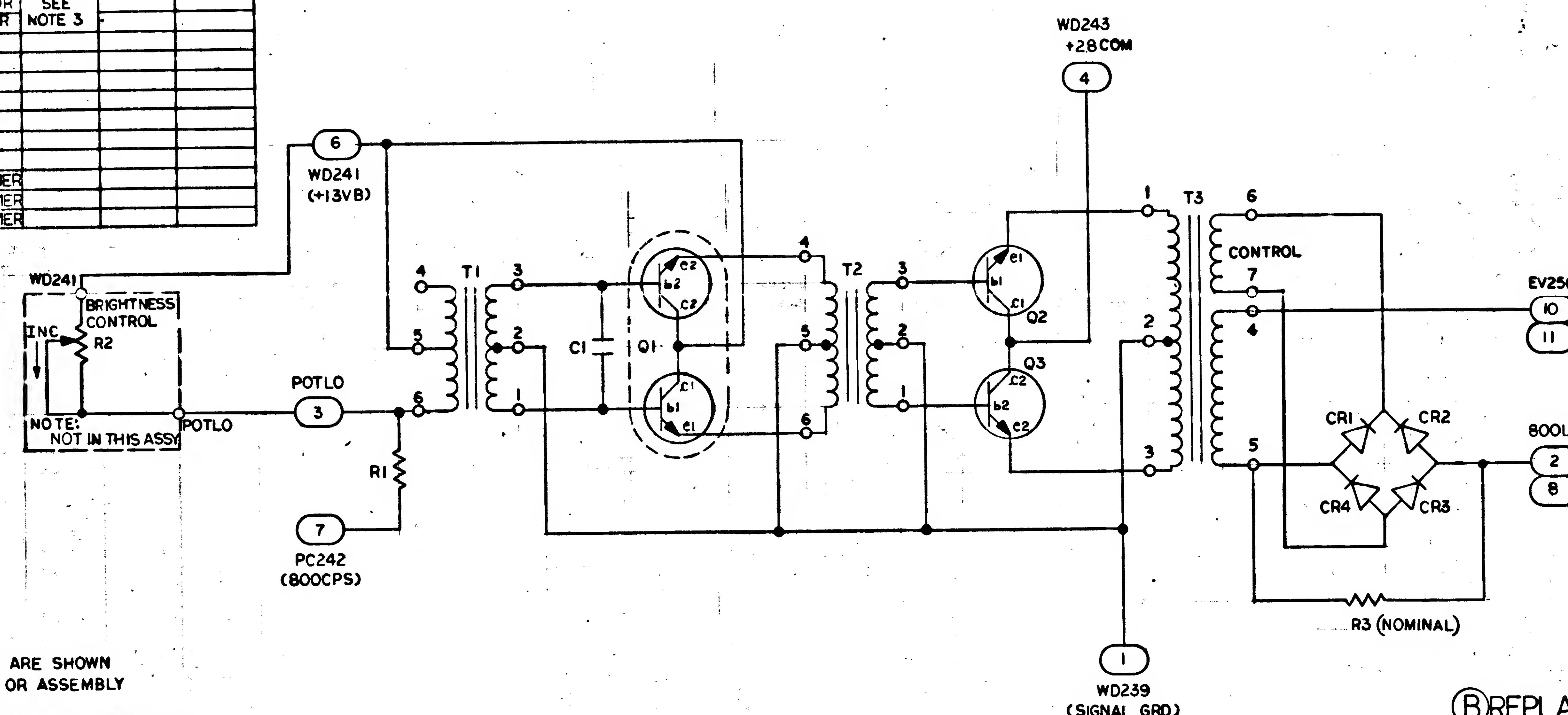
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FINO NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN BY: DATE: 10 OCT 63		SCHEMATIC POWER SUPPLY ASSEMBLY AGC DSKY NAV & MAIN	
CHECKED BY: DATE: 11 OCT 63		CODE IDENT NO. SIZE D NASA DRAWING NO. 1006163	
APPROVAL BY: DATE: 21 OCT 63		SCALE NONE WT SHEET 1 OF 1	
NASA APPROVAL BY: DATE: 21 OCT 63			
MIT APPROVAL BY: DATE: 21 OCT 63			
MIT APPROVAL BY: DATE: 21 OCT 63			
APPLICATION			



NOTICE: WHEN SUBMITTING DRAWINGS, SPECIFICATIONS, OR OTHER DATA, THE USER MUST BE AWARE THAT THE DRAWING IS THE PROPERTY OF THE UNITED STATES GOVERNMENT. IT IS TO BE USED FOR THE PURPOSES FOR WHICH IT WAS SUBMITTED AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM THE UNITED STATES GOVERNMENT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMISSIONS FROM THE UNITED STATES GOVERNMENT FOR ANY OTHER REPRODUCTION OR TRANSMISSION OF THIS DRAWING.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
B	REDRAWN WITH CHANGES PER TDRR 04170	11-14-63	W.K.
C	REVISED PER TDRR 04580	11-14-63	W.K.
D	REVISED PER TDRR 04758	11-14-63	W.K.
E	REVISED PER TDRR 05387	11-14-63	W.K.

REF DESIGNATION	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R1	1006750-46	RESISTOR	3.9K	2%	1/4W
R2	1006736	NOT ON THIS ASSY			
R3	1006750	RESISTOR	SEE TABLE	2%	1/4W
C1	1006793-19	CAPACITOR	.0033		500V
Q1	1010376-1	TRANSISTOR			
Q2	1010269-2	TRANSISTOR	SEE NOTE 3		
Q3	1010269-2	TRANSISTOR			
CR1	1006751	DIODE			
CR2	1006751	DIODE			
CR3	1006751	DIODE			
CR4	1006751	DIODE			
T1	1010291-4	TRANSFORMER			
T2	1010291-4	TRANSFORMER			
T3	1006726	TRANSFORMER			



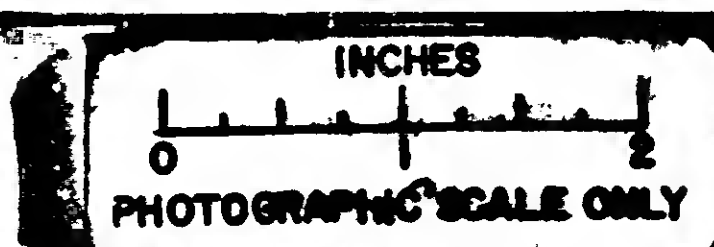
- NOTES
- PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
 - INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
 - Q2 AND Q3 ARE MATCHED PAIRS.

REFERENCE
1 ASSEMBLY DRAWING NO. 1003532

R3	DASH NO.	VALUE
1006750	- 19	300
	- 22	390
	- 25	510
	- 27	620
	- 28	680
	- 29	750
	- 30	820
	- 31	910
	- 32	1000
	- 34	1200
	- 36	1500

REPLACES REV A WITH CHANGES

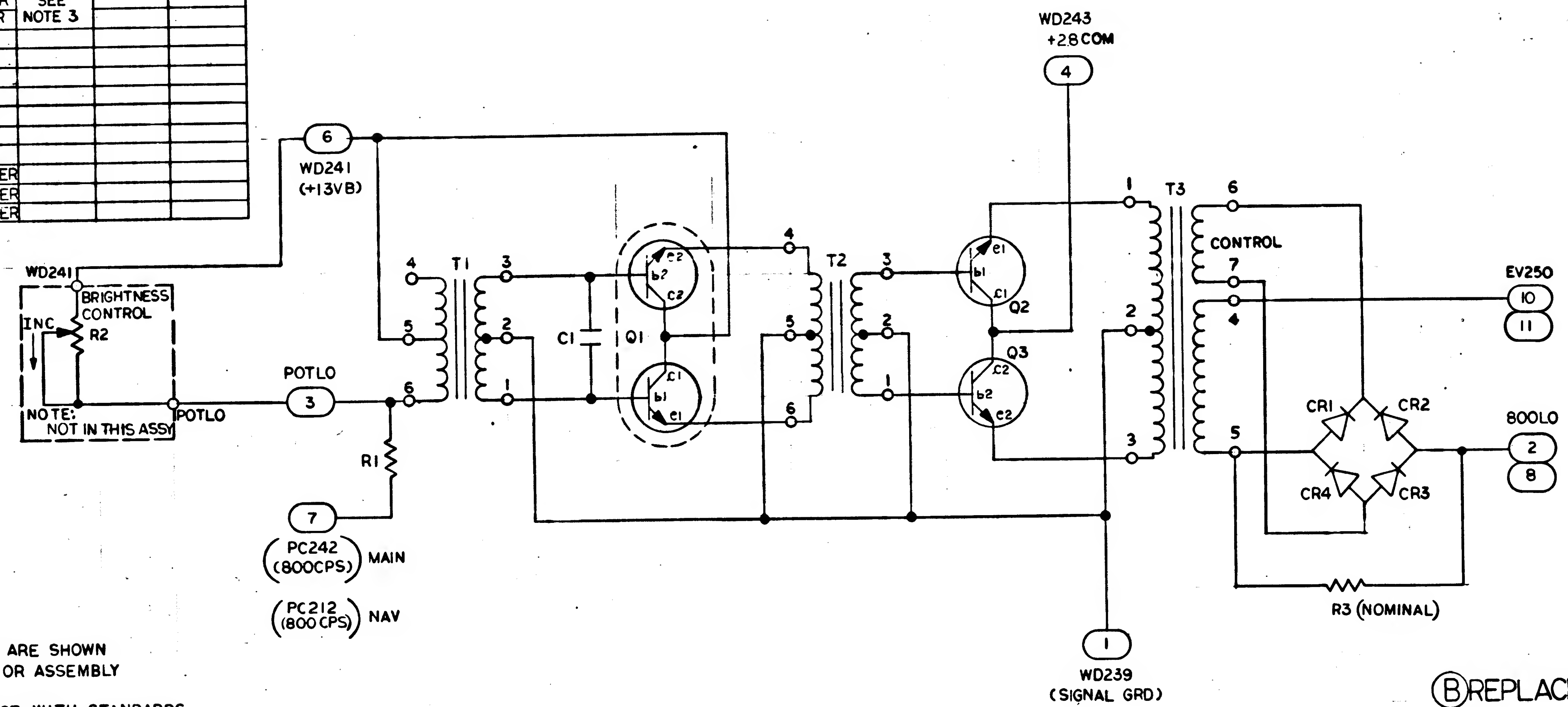
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN BY: J. J. J. DATE: 10/1/63		SCHEMATIC POWER SUPPLY ASSEMBLY AGC DSKY NAV & MAIN	
CHECKED BY: J. J. J. DATE: 10/1/63		CODE IDENT NO. D	
APPROVAL BY: J. J. J. DATE: 10/1/63		NASA DRAWING NO. 1006163	
MIT APPROVAL BY: J. J. J. DATE: 10/1/63		SCALE: NONE	
MIT APPROVAL BY: J. J. J. DATE: 10/1/63		SHEET 1 OF 1	



NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFENSE RELATIONSHIP, THE USER ASSUMES ALL RESPONSIBILITY FOR ANY AND ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEY'S FEES, THAT MAY BE INCURRED BY THE USER OR ANY OTHER PARTY, INCLUDING THE GOVERNMENT, AS A RESULT OF THE USER'S USE OF SUCH DATA FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFENSE RELATIONSHIP.

REVISIONS				
SYM	DESCRIPTION	DATE	APPROVAL	
B	REDRAWN WITH CHANGES PER TDRR 04170	11-06-08	WKC	
C	REVISED PER TDRR 04520	11-06-08	WKC	
D	REVISED PER TDRR 04758	11-06-08	WKC	
E	REVISED PER TDRR 05387	11-06-08	WKC	
F	REVISED PER TDRR C6034	11-06-08	WKC	

REF DESIGNATION	PART NO.	DESCRIPTION	VALUE	TOL	RATING
R1	1006750-46	RESISTOR	3.9K	2%	1/4W
R2	1006736	NOT ON THIS ASSY			
R3	1006750	RESISTOR	SEE TABLE	2%	1/4W
C1	1006793-19	CAPACITOR	.0033		500V
Q1	1010376-1	TRANSISTOR			
Q2	1010269-2	TRANSISTOR	SEE NOTE 3		
Q3	1010269-2	TRANSISTOR			
CR1	1006751	DIODE			
CR2	1006751	DIODE			
CR3	1006751	DIODE			
CR4	1006751	DIODE			
T1	1010291-4	TRANSFORMER			
T2	1010291-4	TRANSFORMER			
T3	1006726	TRANSFORMER			



- NOTES
- PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
 - INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
 - Q2 AND Q3 ARE MATCHED PAIRS.

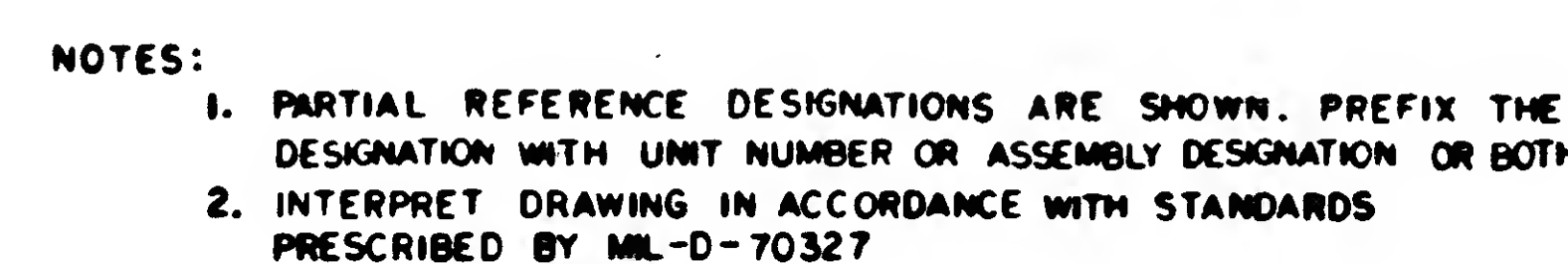
R3	DASH NO.	VALUE
1006750	- 19	300
	- 22	390
	- 25	510
	- 27	620
	- 28	680
	- 29	750
	- 30	820
	- 31	910
	- 32	1000
	- 34	1200
	- 36	1500

REFERENCE
1 ASSEMBLY DRAWING NO. 1003532

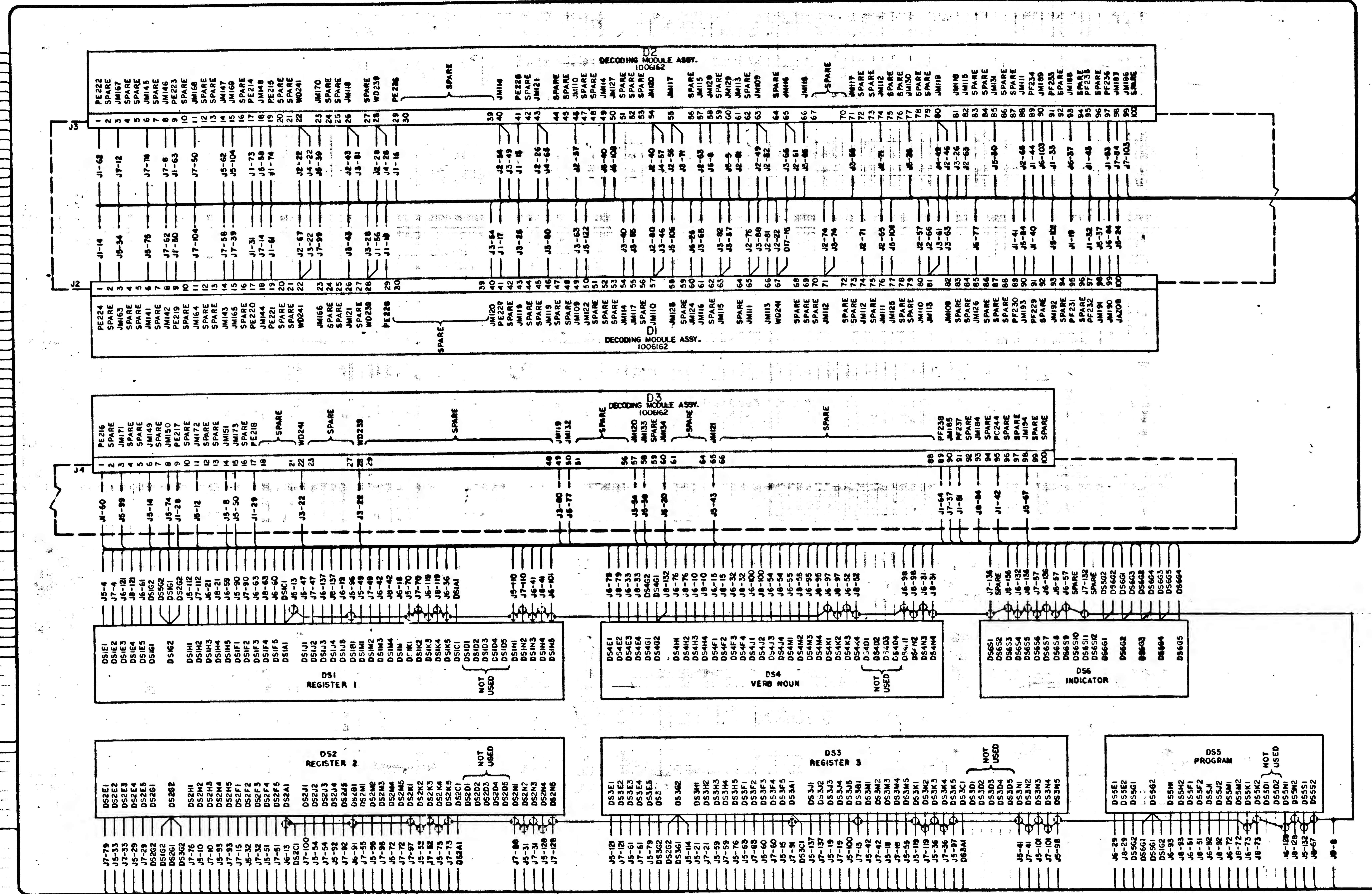
ⓑ REPLACES REV A WITH CHANGES

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
M I T INSTRUMENTATION LAB CAMBRIDGE, MASS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN BY <i>[Signature]</i> DATE 18 OCT 68 CHECKED BY <i>[Signature]</i> DATE 18 OCT 68 APPROVAL BY <i>[Signature]</i> DATE 23 OCT 68		SCHEMATIC POWER SUPPLY ASSEMBLY AGC DSKY NAV & MAIN	
NASA APPROVAL <i>[Signature]</i> MIT APPROVAL <i>[Signature]</i>		CODE IDENT NO. D SCALE NONE	NASA DRAWING NO. 1006163 SHEET 1 OF 1



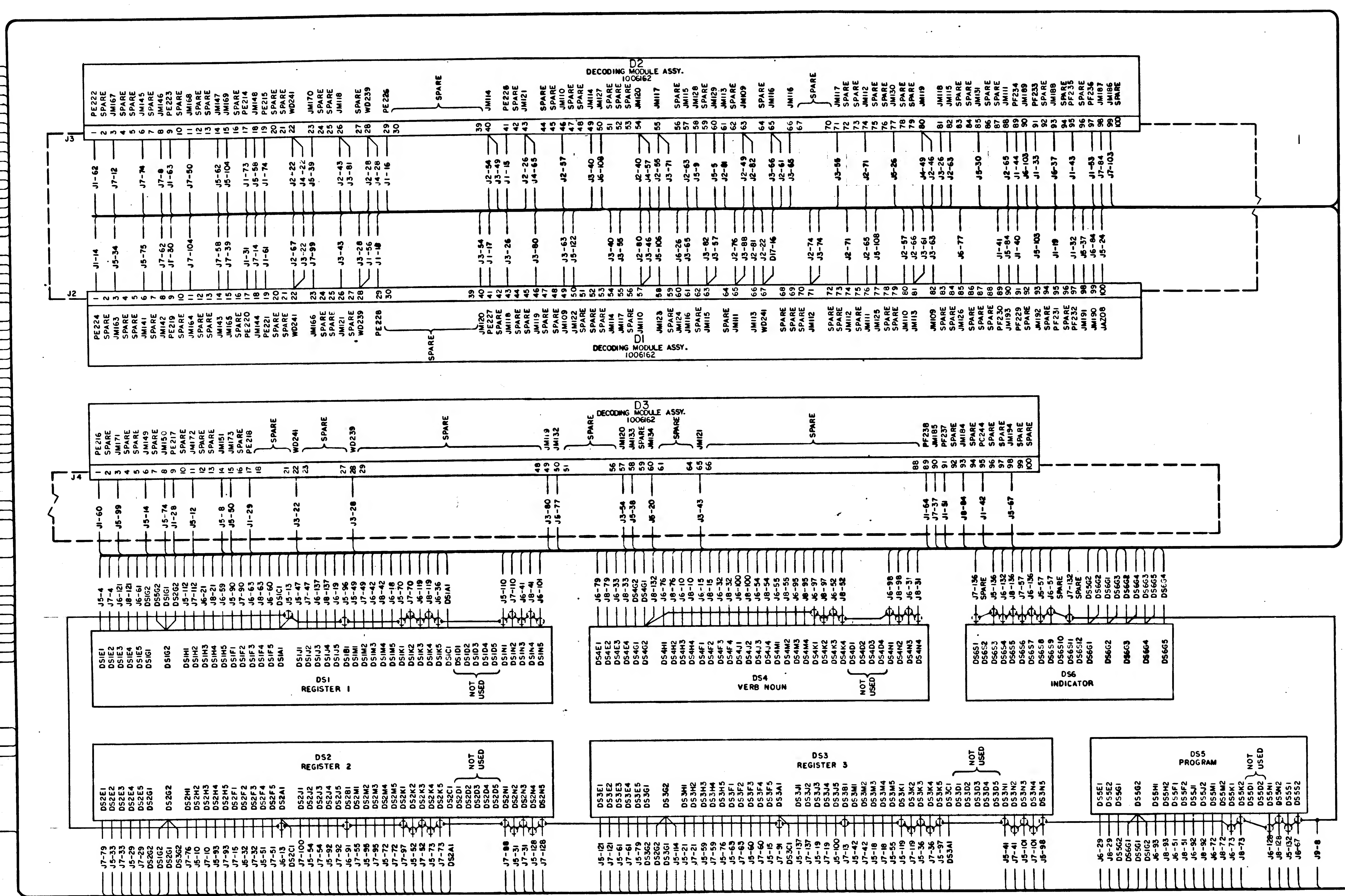
CITY REGD		PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FSC NO.
		LIST OF MATERIALS		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS = DECIMALS ± ANGLES ± DO NOT SCALE THIS DRAWING MATERIAL		CITY INSTRUMENTATION LAB Commander Mess DRAWN BY DATE CHECKED BY DATE APPROVAL REGR APPROVAL TEST APPROVAL NAVA CHIEFS OF STAFF SEAL 1006156-1		
MEAT TREATMENT		MANNED SPACECRAFT CENTER HAWAIIAN ISLANDS		
1003524		INTERCONNECTING DIAGRAM AGC DSKY NAV		
HEAT ARMY USED ON		CASE SECT NO. SIZE J		
APPLICATION		SCALE WEIGHT NUMBER 1 OF 2		



NOTES:

1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THE DESIGNATION WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

[illegible]

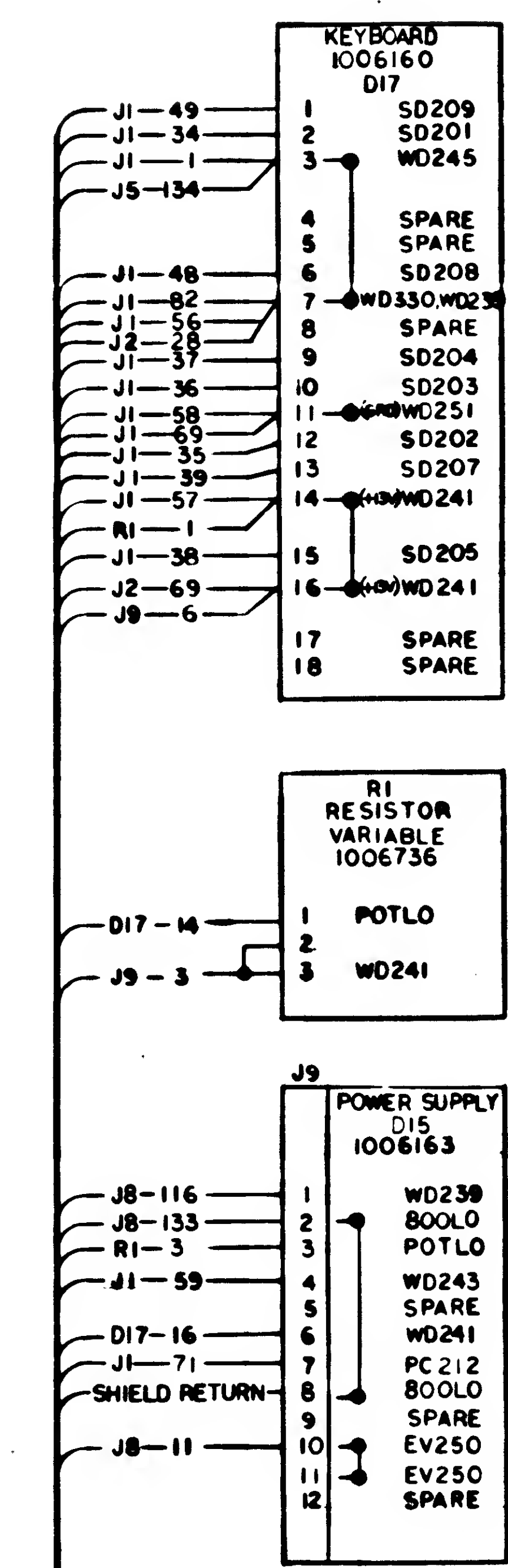
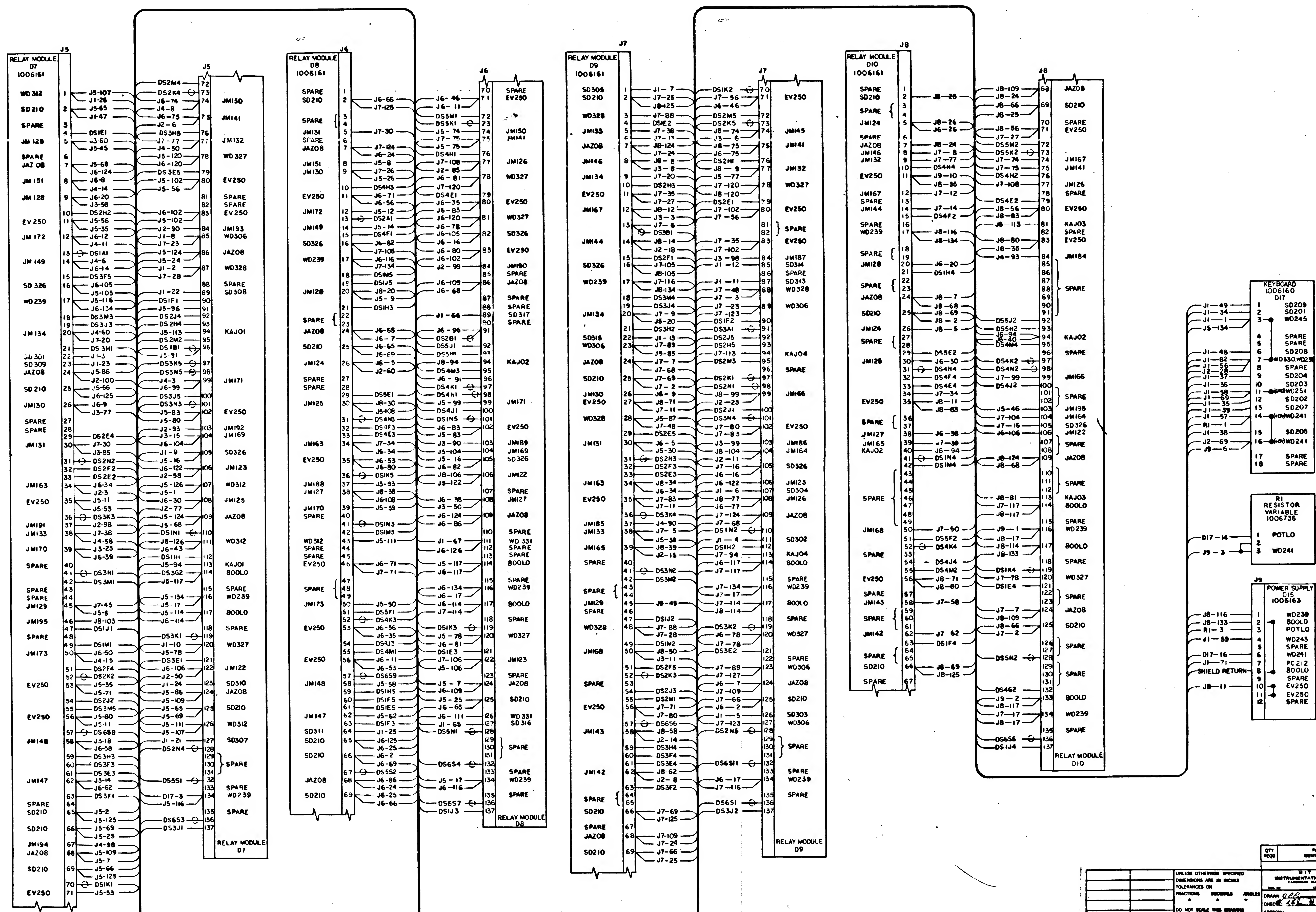


NOTES:
1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THE DESIGNATION WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH
2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

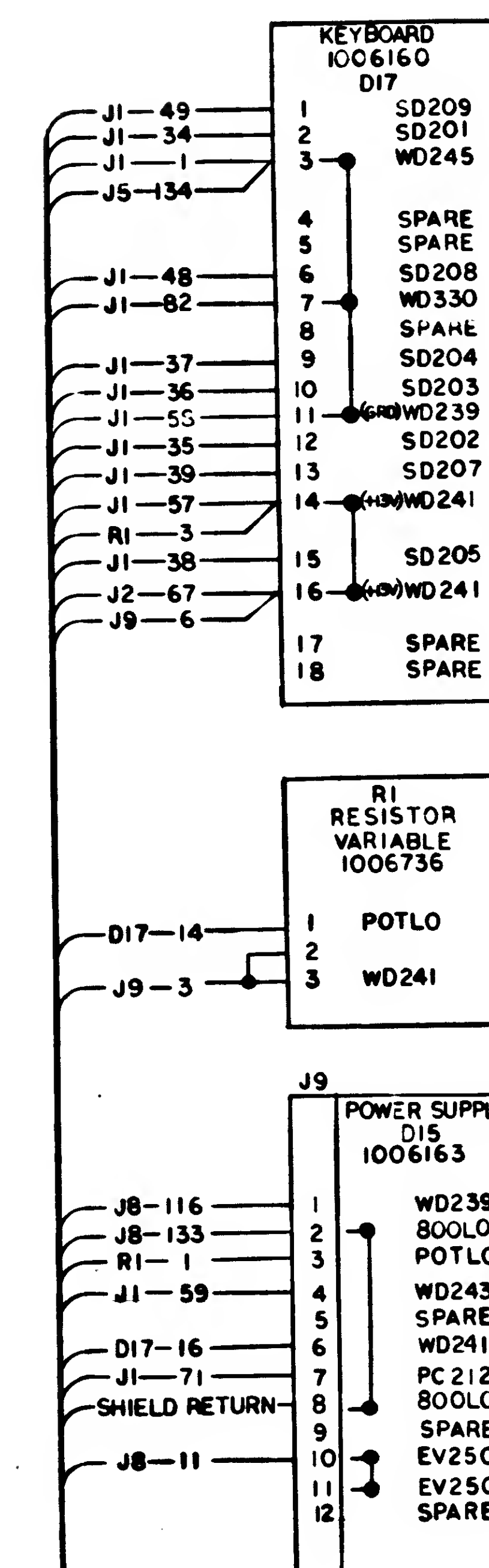
CITY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIG. NO.
LIST OF MATERIALS						
MANNED SPACECRAFT CENTER HOUSTON, TEXAS						
INTERCONNECTING DIAGRAM AGC DSKY NAV						
NASA DRAWING NO. 1006164						
SCALE: 1" = 1"						
SHEET 1 OF 2						

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FRACTIONS = DECIMALS
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
NEXT ASSY USED ON
APPLICATION

APPROVAL: *[Signature]*
DATE: *[Date]*
CHECKED: *[Signature]*
APPROVAL: *[Signature]*
DATE: *[Date]*
NESA APPROVAL: *[Signature]*
NESA APPROVAL: *[Signature]*



QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FORM NO.	
				LIST OF MATERIALS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON		CITY INSTRUMENTATION LAB COLUMBIA ROAD NEW OR LEWISPORT		MAHANN SPACECRAFT CENTER HOUSTON, TEXAS			
FRACTIONS DECIMALS ANGLES *		DRAWN <u>gld</u> DATE <u>6/24/68</u> CHECK <u>gld</u> BY <u>gld</u>		INTERCONNECTING DIAGRAM AGC DSKY NAV			
DO NOT SCALE THIS DRAWING		APPROV: <u>[Signature]</u>					
MATERIAL		APPROV: <u>Edgar C. Webb 21 Nov 68</u>					
1003524		NEAT TREATMENT		CODE IDENT NO.		NASA ORIGIN ID.	
NEXT ABBY		LASTED ON		J		1006166	
APPLICATION		FINAL PRINT		G1T APPROVAL		SCALE	
		DET APPR-VAL <u>[Signature]</u>		WT		SHEET 2 of 2	



QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		PROD NO.	
LIST OF MATERIALS							
M I T IN "DOCUMENTATION LAB COMMERCIAL MAPS DIVISION"				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		FRACTIONS		DECIMALS		ANGLES	
TOLERANCES ON		=		=		=	
DO NOT SCALE THIS DRAWING		APPROV:		DATE:		BY:	
MATERIAL		APPROV:		DATE:		BY:	
1003524		HEAT TREATMENT		NADA A" TYPICAL		CODE IDENT NO.	
NEXT ASSEMBLY USED ON		FINAL PUGH		M I T APPROVAL		J	
APPLICATION				M I T APPROVAL		10036 DRIVING NO.	
				M I T APPROVAL		1006164	
				M I T APPROVAL		SCALE	
				M I T APPROVAL		WT	
				M I T APPROVAL		SHEET 2 of 2	



REFERENCES

1.1003540	MAIN ASSY
2.1006162	DECODING MODULES
3.1006161	RELAY MODULES
4.1006163	POWER SUPPLY
5.1006150	KEYBOARD MODULE

[illegible]



NO

--	--

(+3V) (WD240) SPARE
WD241 SPARE
SD242 SPARE
SD201 SPARE
SD202 SPARE
SD203 SPARE
SD204 SPARE
SD205 SPARE
SD206 SPARE
SD207 SPARE
SD208 SPARE
SD210 SPARE
SD211 SPARE
SD212 SPARE
SD213 SPARE
SD214 SPARE
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SD242 SPARE
SD243 SPARE
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SD245 SPARE
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SD247 SPARE
SD248 SPARE
SD249 SPARE
SD250 SPARE

(+13 V) WD241 SPARE
WD242 SPARE
WD243 SPARE
WD244 SPARE
WD245 SPARE
WD246 SPARE
WD247 SPARE
WD248 SPARE
WD249 SPARE
WD250 SPARE

(SIGNAL GND) WD239 SPARE
WD240 SPARE
WD241 SPARE
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WD247 SPARE
WD248 SPARE
WD249 SPARE
WD250 SPARE

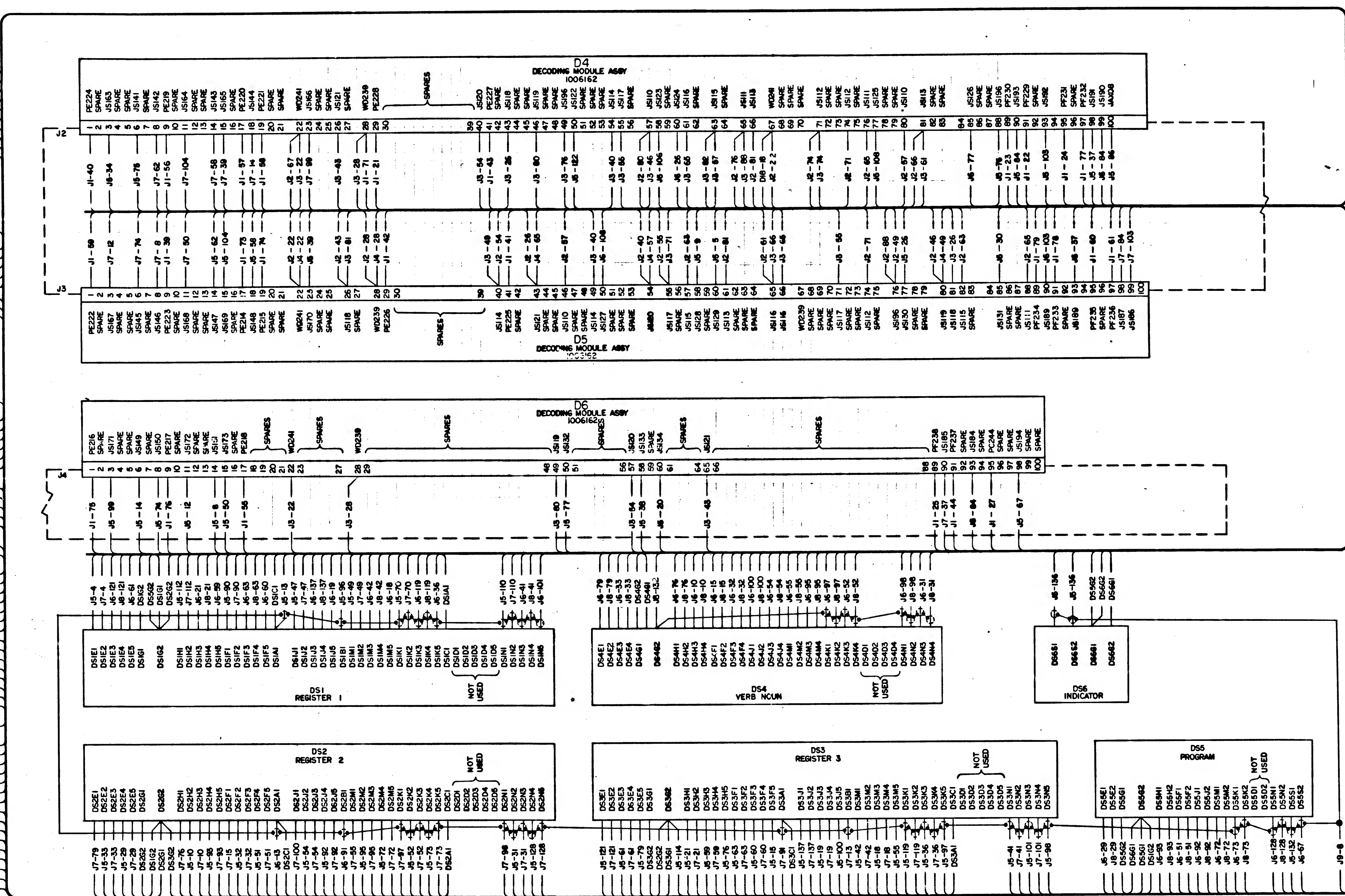
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WD240 SPARE
WD241 SPARE
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WD244 SPARE
WD245 SPARE
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WD248 SPARE
WD249 SPARE
WD250 SPARE

(GND) WD239 SPARE
WD240 SPARE
WD241 SPARE
WD242 SPARE
WD243 SPARE
WD244 SPARE
WD245 SPARE
WD246 SPARE
WD247 SPARE
WD248 SPARE
WD249 SPARE
WD250 SPARE

(SIGNAL GND) WD239 SPARE
WD240 SPARE
WD241 SPARE
WD242 SPARE
WD243 SPARE
WD244 SPARE
WD245 SPARE
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WD247 SPARE
WD248 SPARE
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WD250 SPARE

(+25 V) WD239 SPARE
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WD241 SPARE
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WD249 SPARE
WD250 SPARE

(GND) WD239 SPARE
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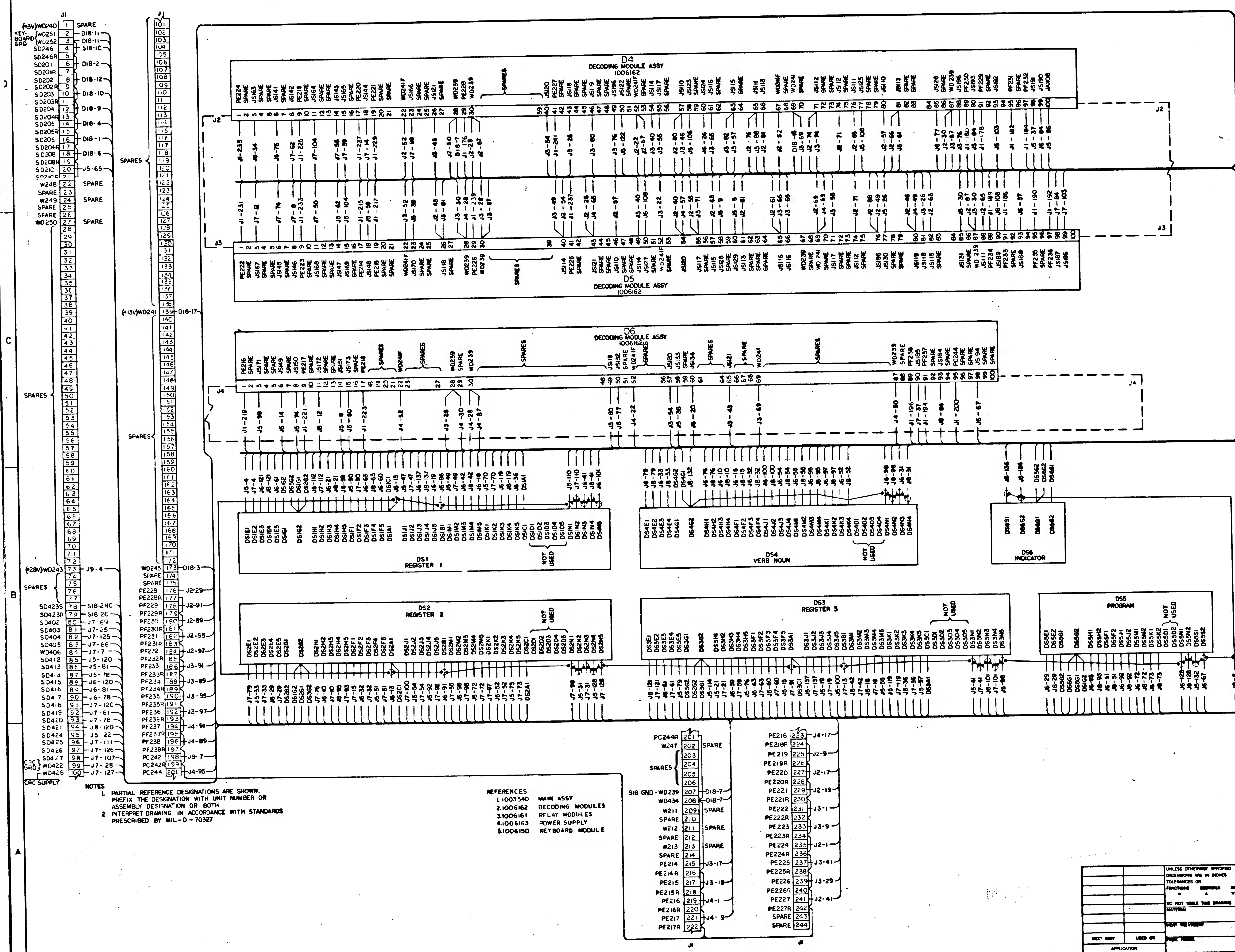


NOTES
1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN.
PREFIX THE DESIGNATION WITH UNIT NUMBER OR
A JEMBY DESIGNATION OR BOTH
2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70357

REFERENCES
1. 1003540 MAIN ASSY
2. 1006162 DECODING MODULES
3. 1006161 RELAY MODULES
4. 1006163 POWER SUPPLY
5. 1006150 KEYBOARD MODULE

QTY	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REV. NO.
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
INTERCONNECTING DIAGRAM AGC KEYBOARD-MAIN			
1006165			
J			
1006165			
1			
2			

REV	DESCRIPTION	DATE	BY
A	REVISED PER TORR 06050		
B	CHANGED PER TORR 07070		
C	REVISED PER TORR 07644	5/10/64	AK



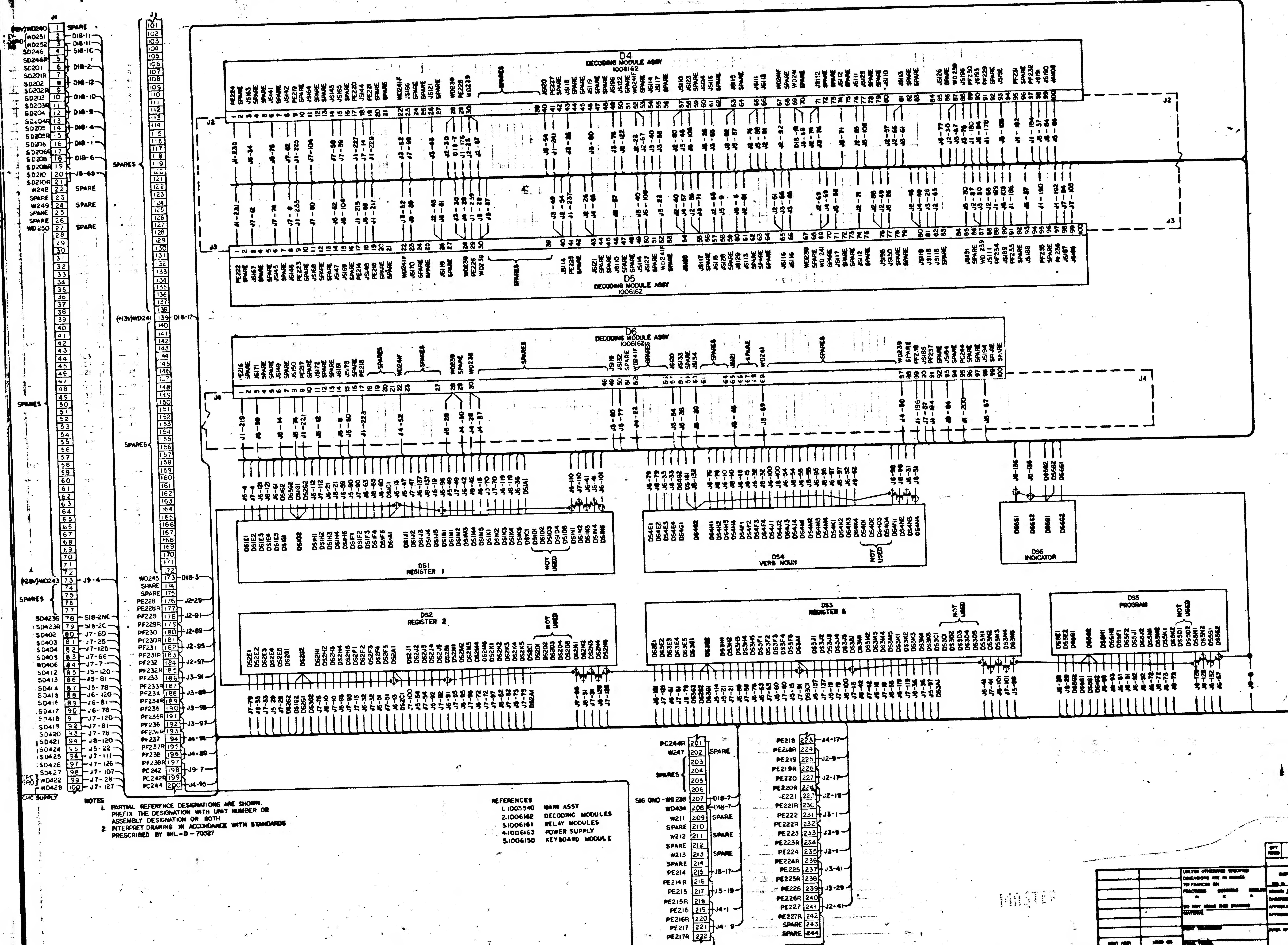
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1	1006165	INTERCONNECTING DIAGRAM	1
1	1006165	AGC DSKY MAIN	1

NOTES
1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN.
2. PREFIX DESIGNATION WITH UNIT NUMBER OR
ASSEMBLY DESIGNATION OR BOTH
3. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327

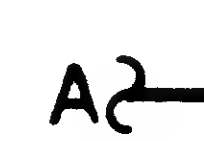
REFERENCES
1. 1006165
2. 1006166
3. 1006167
4. 1006168
5. 1006169

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W247	202	SPARE
W211	203	SPARE
W212	204	SPARE
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W214	206	SPARE
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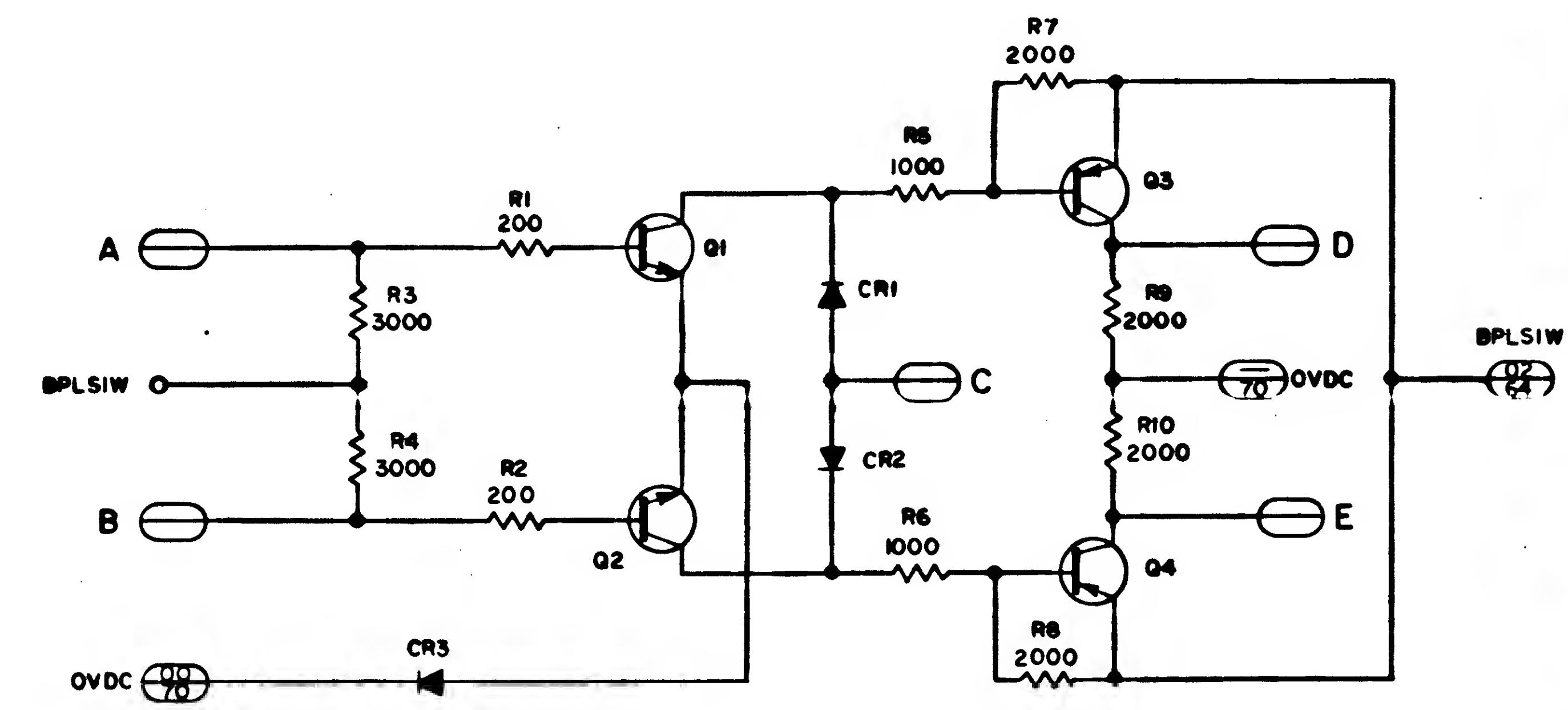


PART OR DISPOSITION NO.		NOMENCLATURE OR DESCRIPTION		REQ NO
LIST OF MATERIALS				
BY RESEARCH LAB CROSS REF		MAINED SPACECRAFT CENTER HONOLULU, HAWAII		
REVISION DATE <i>12/1/68</i> <i>12/1/68</i> <i>12/1/68</i> <i>12/1/68</i> <i>12/1/68</i>		INTERCONNECTING DIAGRAM		
		AGC DSKY MAIN		
PROJECT <i>12/1/68</i> <i>12/1/68</i>	REV REF NO.	J	REQ NUMBER 1006165	
DATE <i>12/1/68</i>	BY	WT	CHECKED	OK

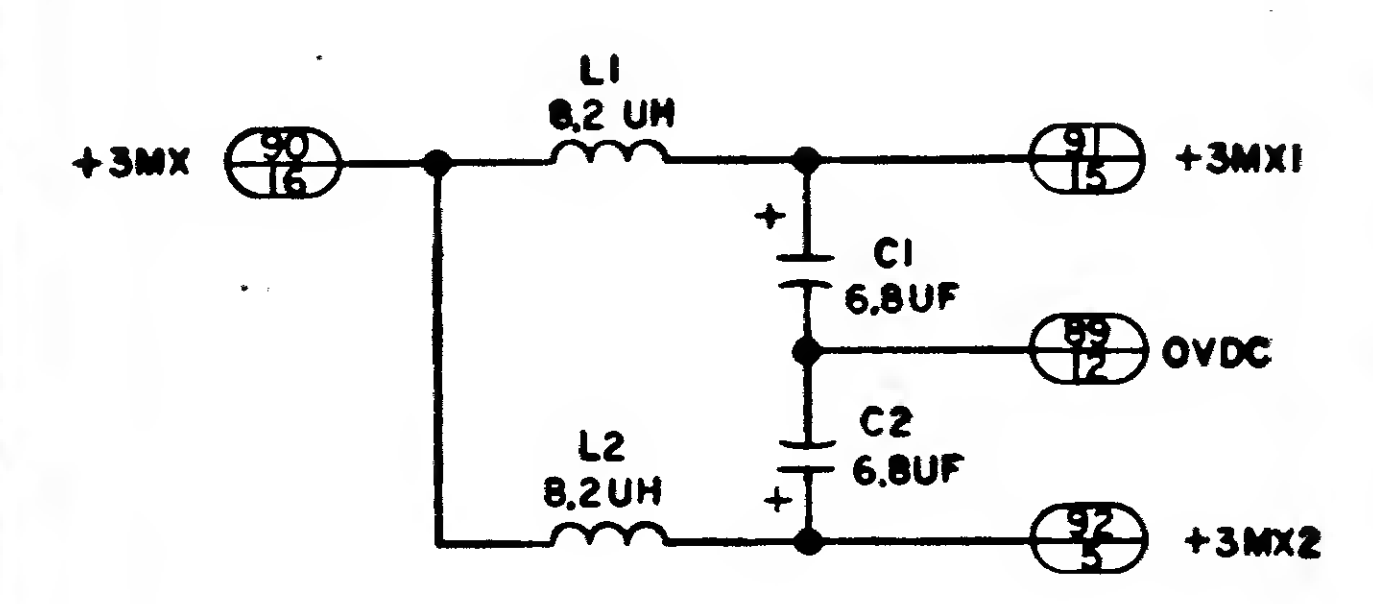


UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES
TOLERANCES ARE IN INCHES
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
NEXT ASSY USED ON FINAL FINISH
APPLICATION

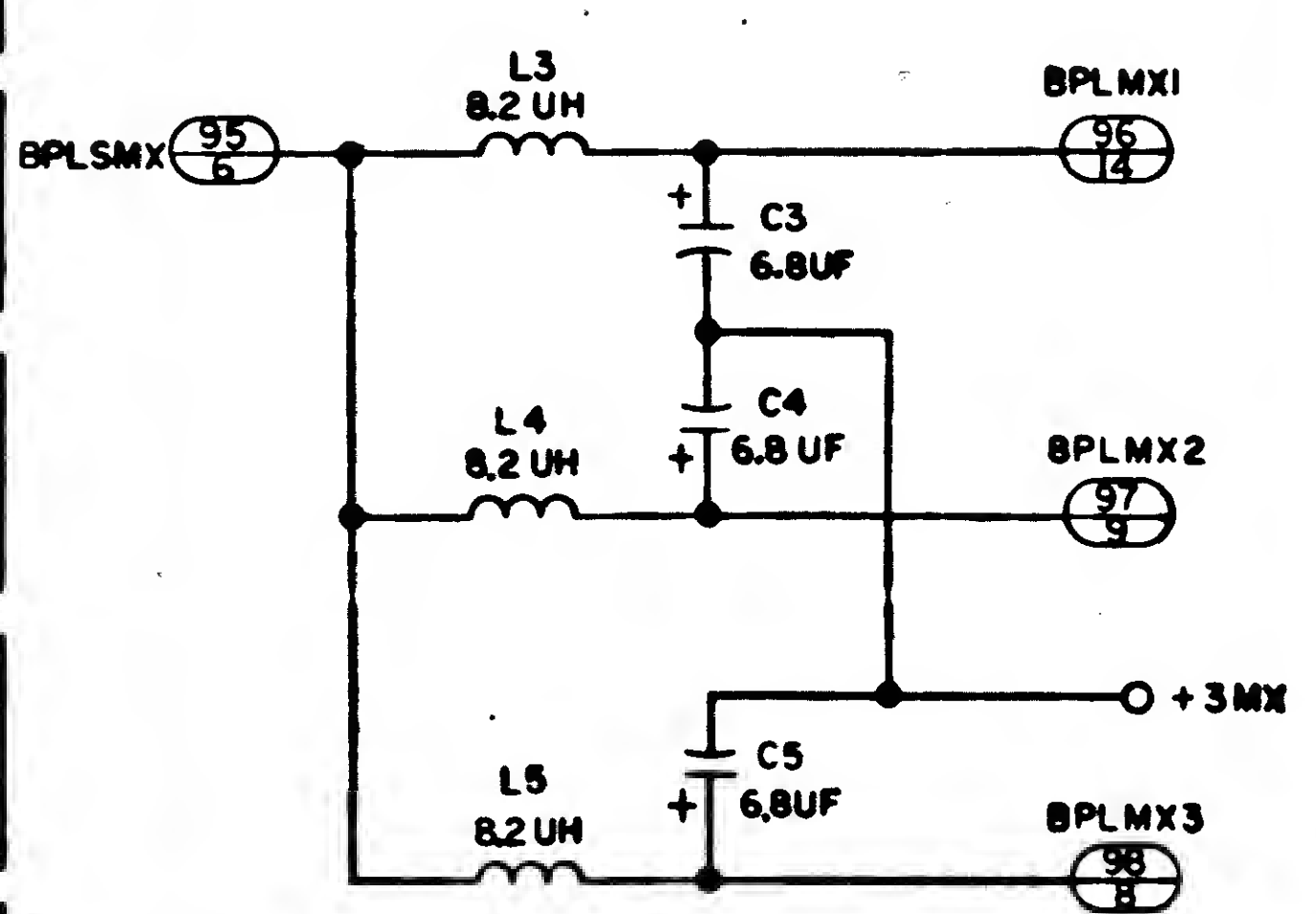
3 IDENTICAL CIRCUITS
NUMBERS 40501, 40502, 40503



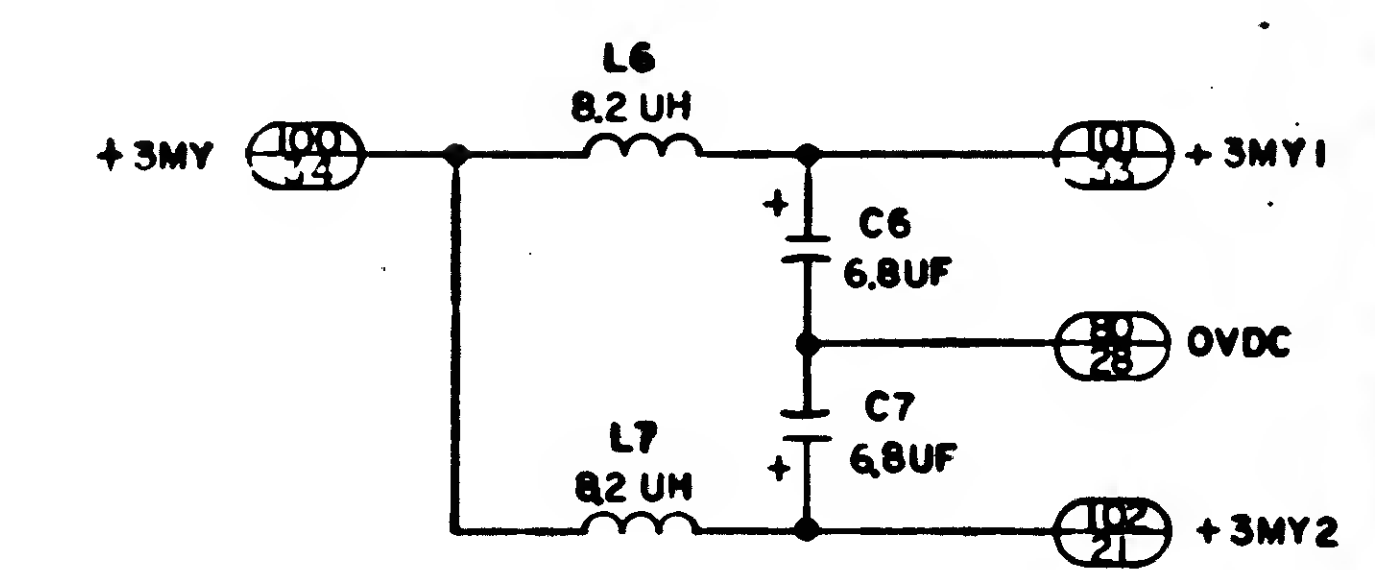
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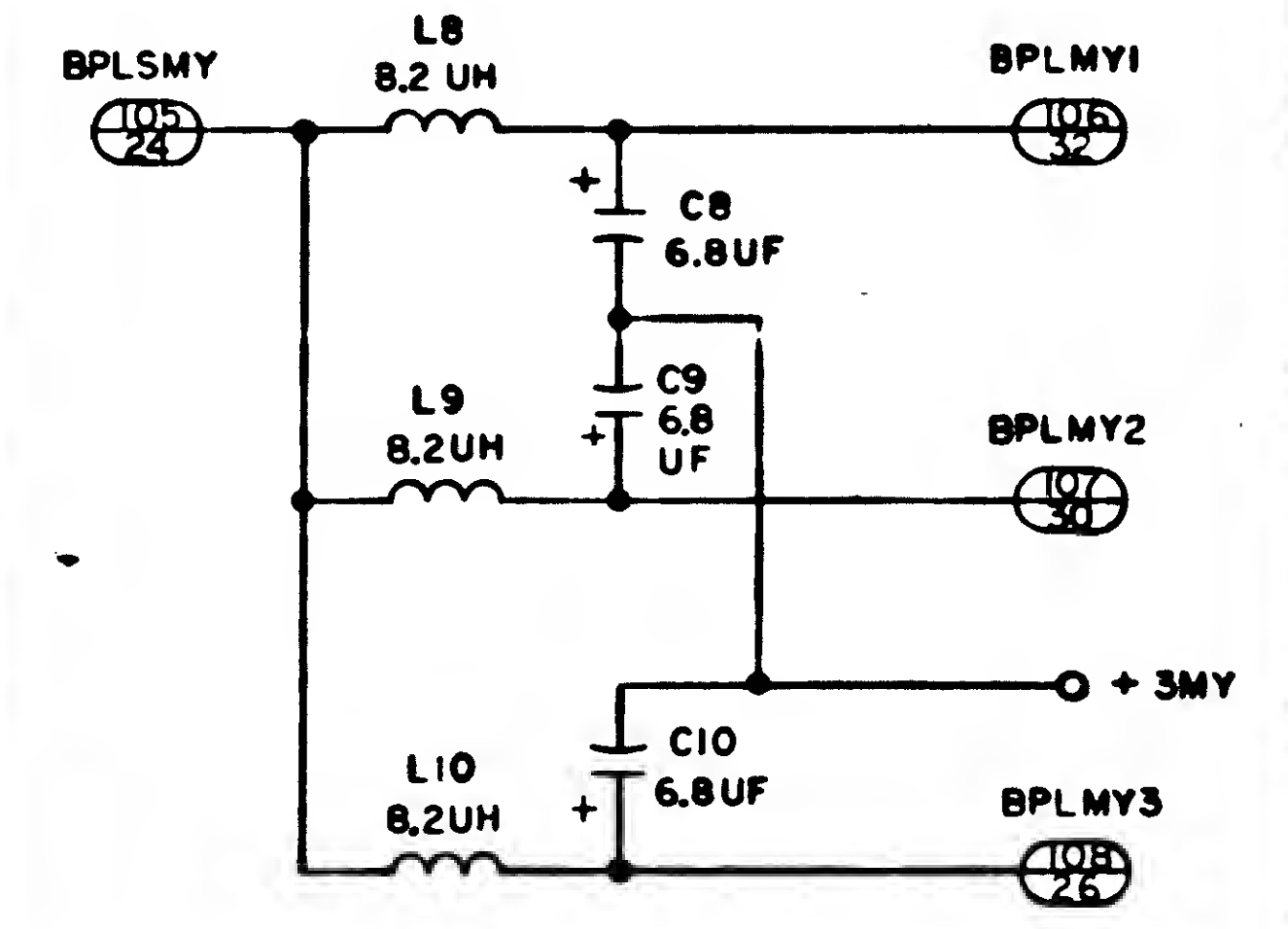
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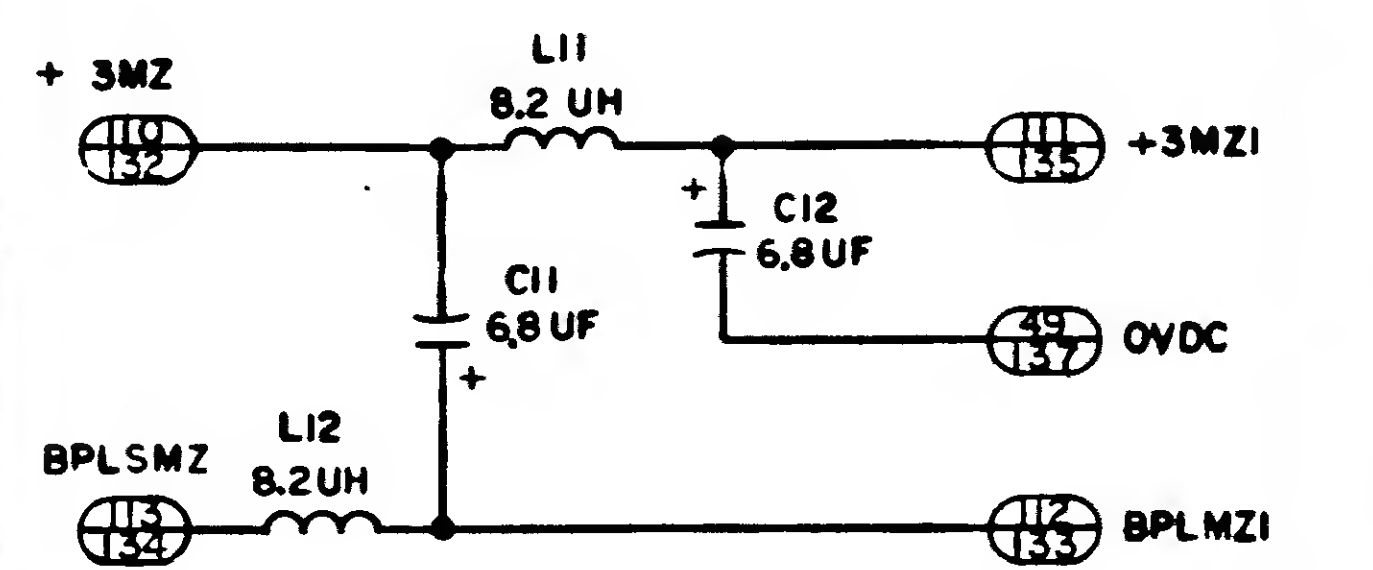
CIRCUIT NO. 40512



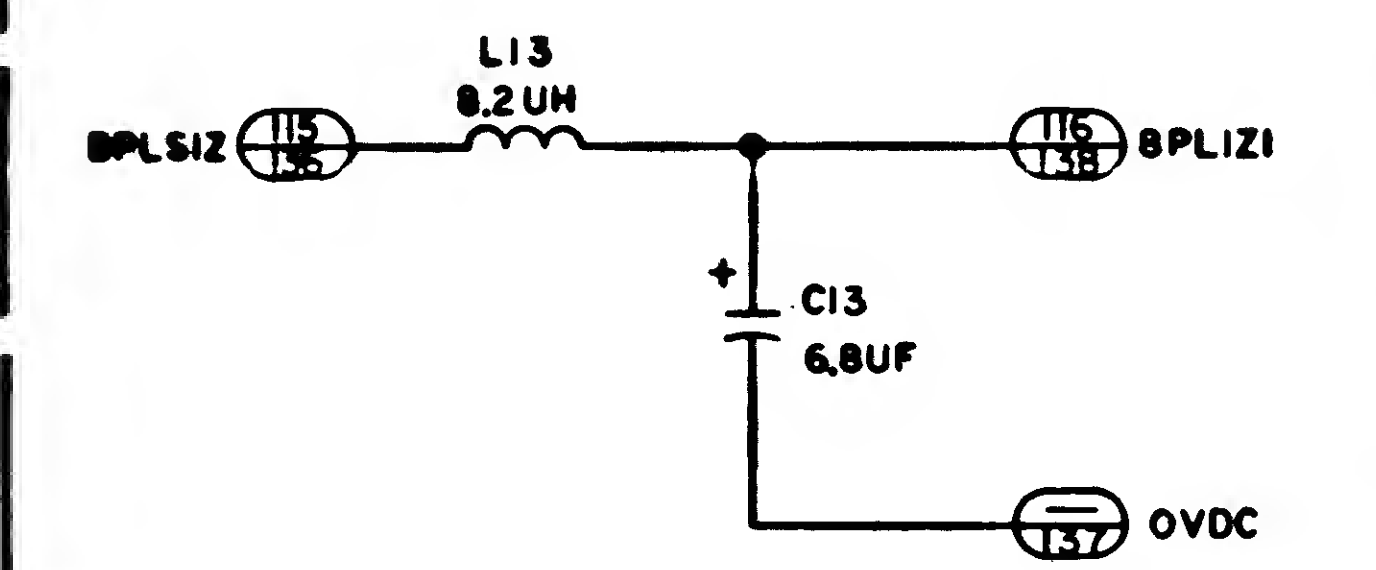
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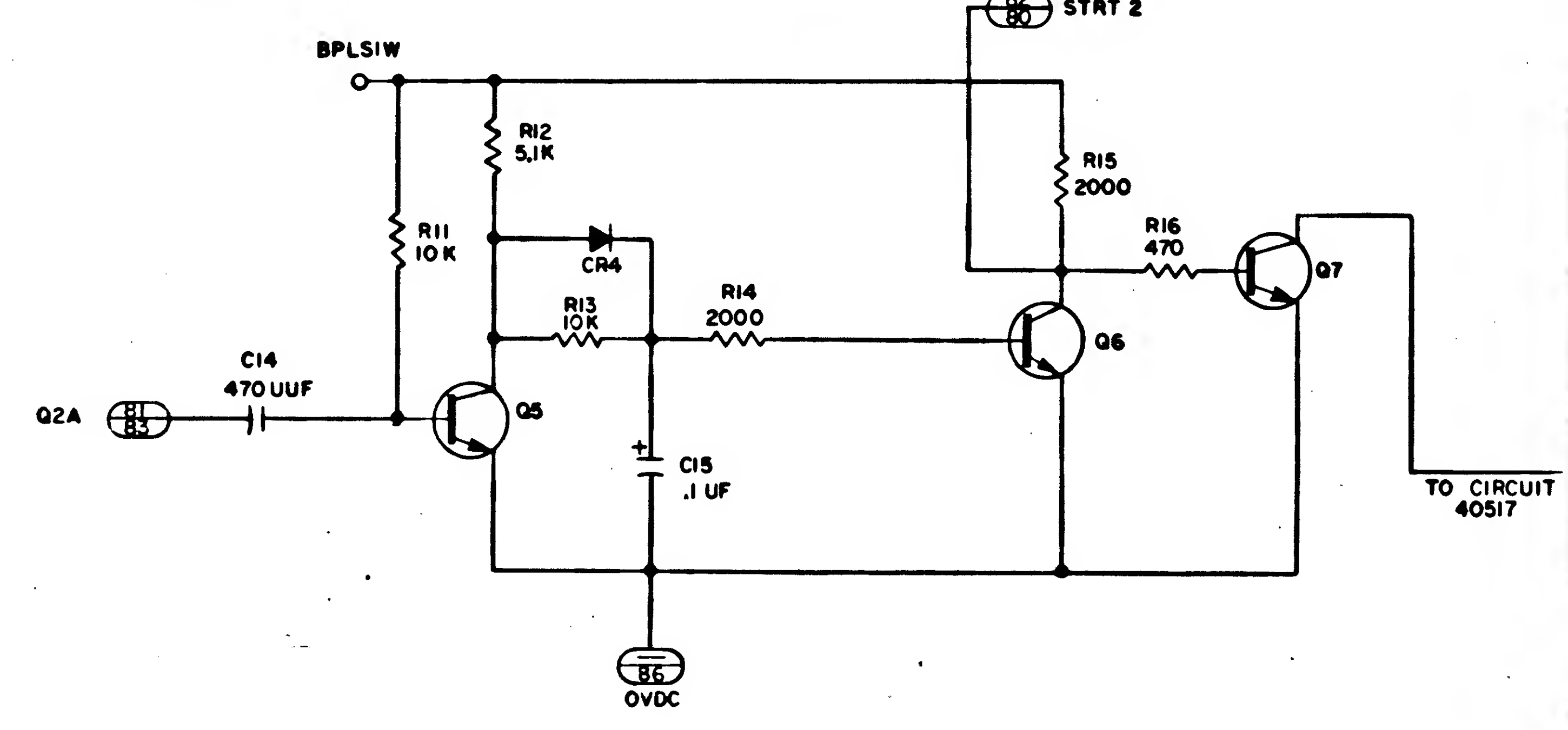
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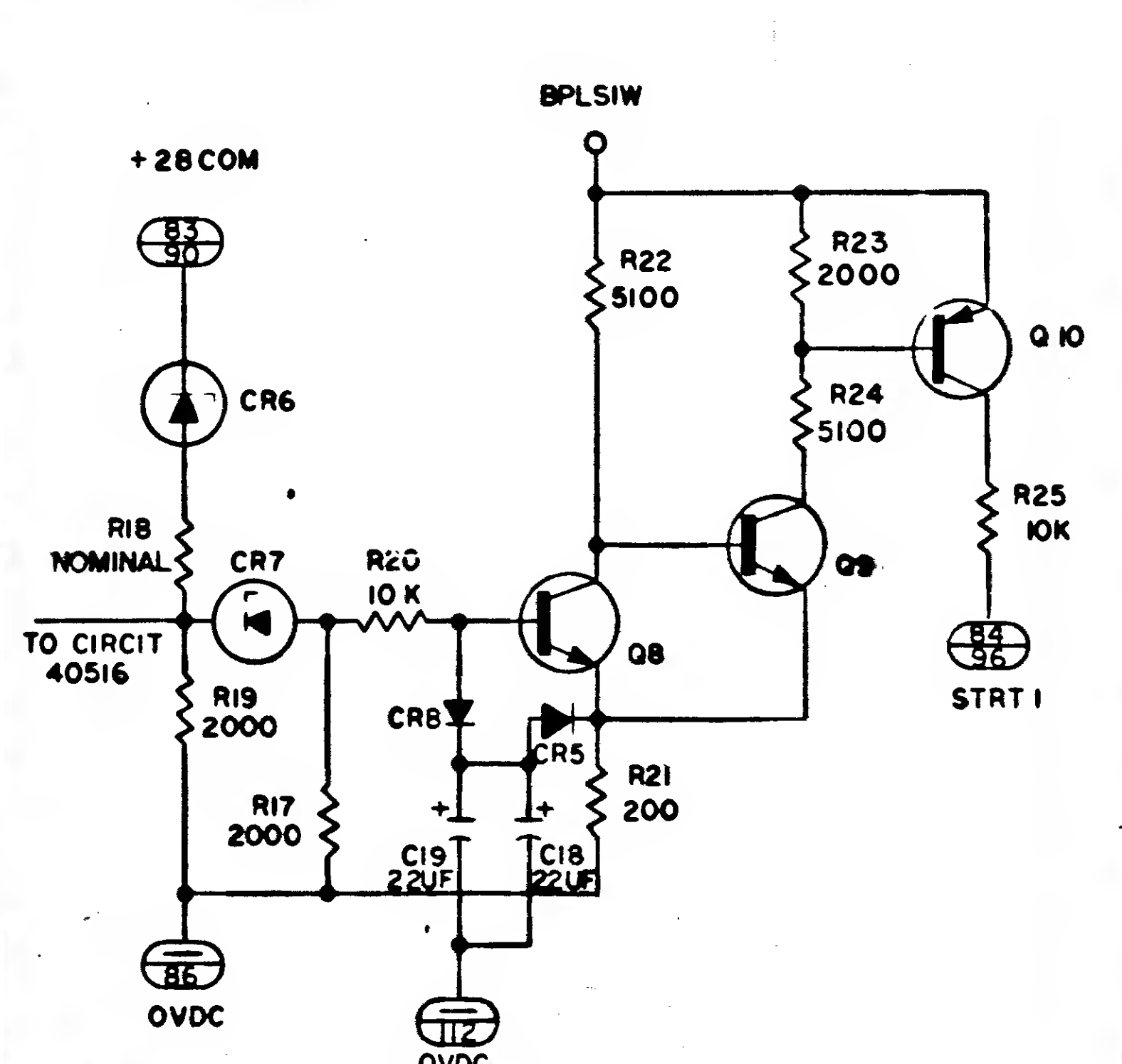
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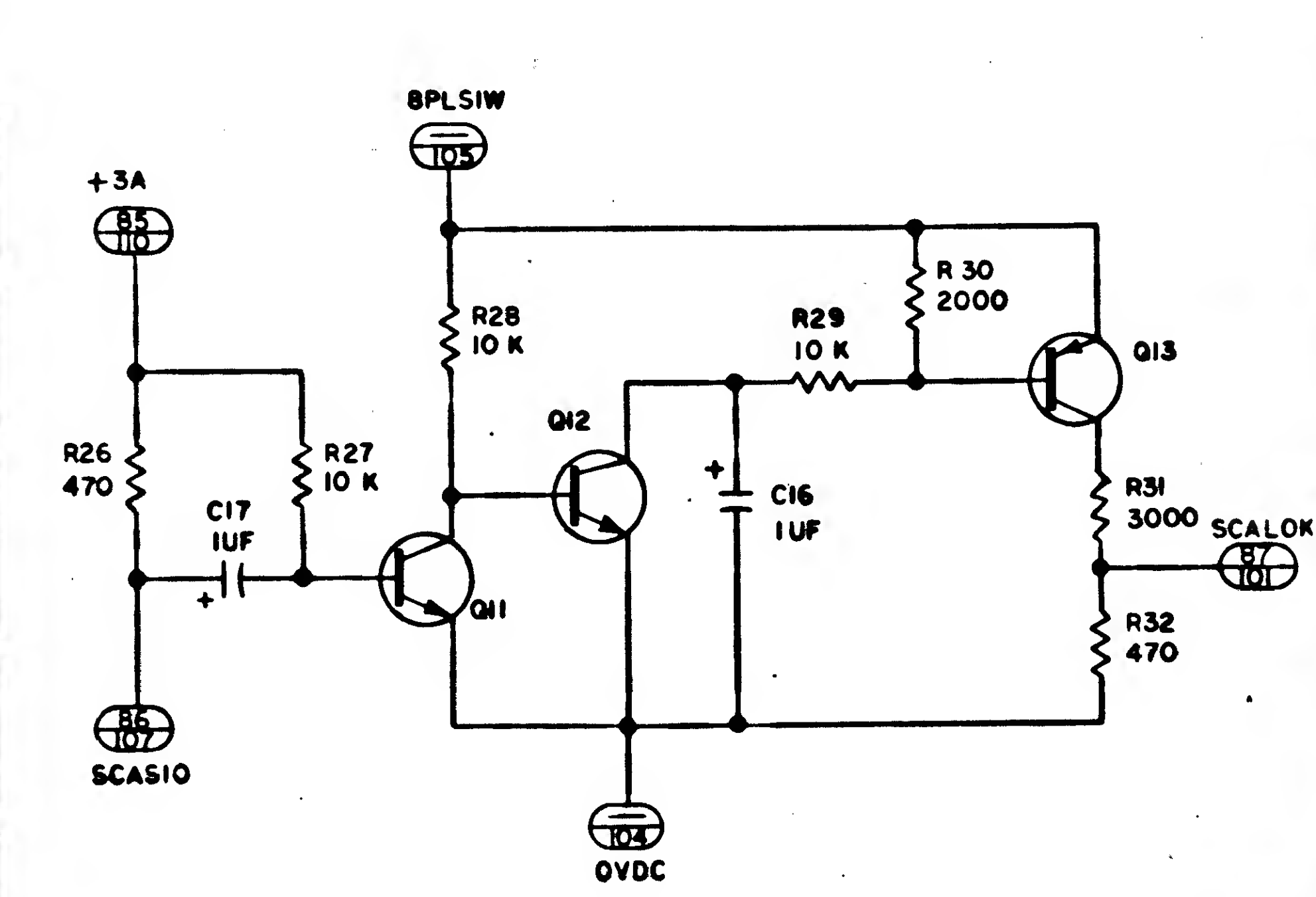
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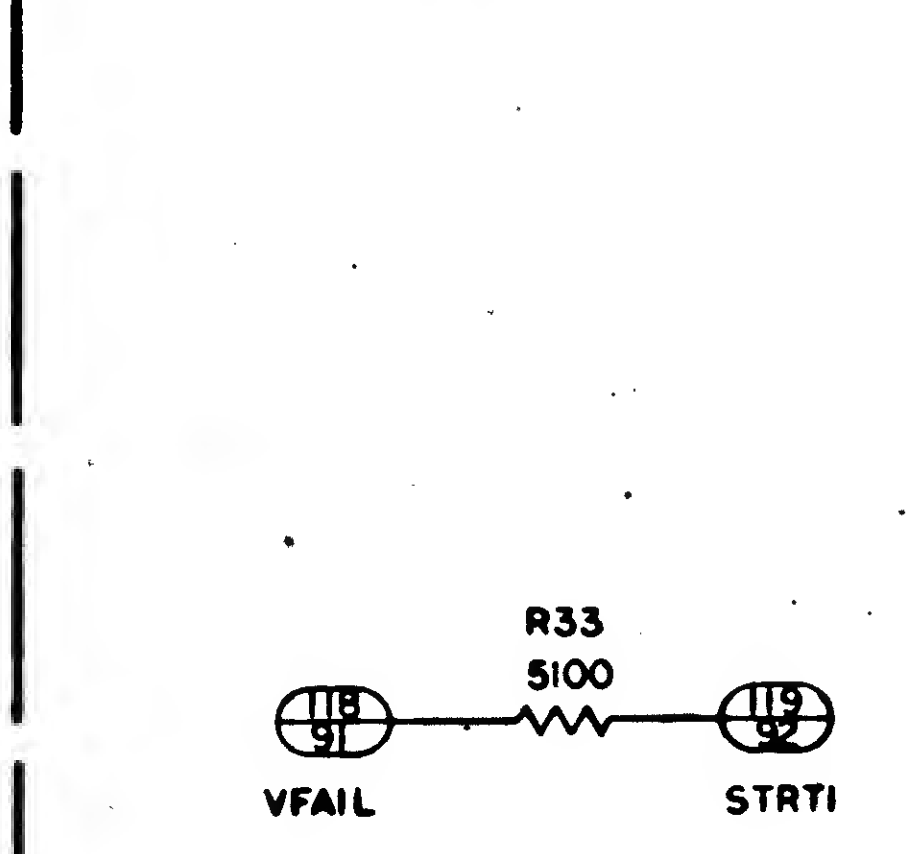
CIRCUIT NO. 40517



CIRCUIT NO. 40518



CIRCUIT NO. 40519



REF ASSEMBLY DWG 1003485

- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. UNLESS OTHERWISE SPECIFIED, RESISTOR VALUES ARE IN OHMS

COMPONENT PREFIX (ASSY)	CIRCUIT NO.	A			B			C			D			E		
		SIG	PIN NO.	PIN NO.	SIG	PIN NO.	PIN NO.	SIG	PIN NO.	PIN NO.	SIG	PIN NO.	PIN NO.	SIG	PIN NO.	PIN NO.
1	40501	RPG1	10	49	RPG4	13	47	GATER	20	53	GTR5	30	57	GTUS	33	55
2	40502	RPG2	11	61	RPG5	14	55	GATES	21	55	GTSS	31	59	GTVS	34	67
3	40503	RPG3	12	73	RPG6	15	71	GATET	22	77	GTTS	32	81	GTWS	35	79

REPLACES 1006189 WITH CHANGES

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FINO NO
LIST OF MATERIALS			
INSTRUMENTATION LAB MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC, STRAND GATE MODULE B31 CODE IDENT NO. E NASA DRAWING NO. 1006199 SCALE 1 OF 2			

6

5

4

3

2

1

6619001

REVISIONS 13677

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING	CIRCUIT NO. USED ON
R1	1006750-15	RESISTOR	200	± 2%	1/4 W	40501 40502 40503
R2	-15	↑	200	↑	↑	
R3	-43	↑	3000	↑	↑	
R4	-43	↑	3000	↑	↑	
R5	-32	↑	1000	↑	↑	
R6	-32	↑	1000	↑	↑	
R7	-39	↑	2000	↑	↑	
R8	-39	↑	2000	↑	↑	
R9	-39	↑	2000	↑	↑	
R10	-39	↑	2000	↑	↑	
R11	-56	↑	10K	↑	↑	40516
R12	-49	↑	5100	↑	↑	
R13	-56	↑	10K	↑	↑	
R14	-33	↑	2000	↑	↑	
R15	-39	↑	2000	↑	↑	
R16	-24	↑	470	↑	↑	
R17	1006750-39	↑	2000	↑	↑	
R18	SEE CHART	↑	NOMINAL	↑	↑	
R19	1006750-39	↑	2000	↑	↑	
R20	-56	↑	10K	↑	↑	40517
R21	-15	↑	200	↑	↑	
R22	-49	↑	5100	↑	↑	
R23	-39	↑	2000	↑	↑	
R24	-49	↑	5100	↑	↑	
R25	-56	↑	10K	↑	↑	
R26	-24	↑	470	↑	↑	
R27	-56	↑	10K	↑	↑	
R28	-56	↑	10K	↑	↑	
R29	-56	↑	10K	↑	↑	
R30	-39	↑	2000	↑	↑	40518
R31	-43	↑	3000	↑	↑	
R32	-24	↑	470	↑	↑	
R33	1006750-49	RESISTOR	5100	± 2%	1/4 W	40519
C1	1006755-79	CAPACITOR	6.8UF	± 10%	35VDC	40510
C2	-	↑	↑	↑	↑	40511
C3	-	↑	↑	↑	↑	
C4	-	↑	↑	↑	↑	
C5	-	↑	↑	↑	↑	
C6	-	↑	↑	↑	↑	40512
C7	-	↑	↑	↑	↑	
C8	-	↑	↑	↑	↑	
C9	-	↑	↑	↑	↑	
C10	-	↑	↑	↑	↑	40513
C11	-	↑	↑	↑	↑	
C12	-	↑	↑	↑	↑	
C13	1006755-79	↑	6.8UF	↑	35VDC	40515
C14	1006777-20	↑	470UF	↑	100VDC	40516
C15	1006755-57	↑	0.1UF	↑	35VDC	
C16	1006755-69	↑	1.0UF	↑	35VDC	
C17	1006755-69	↑	1.0UF	↑	35VDC	
C18	1006755-134	↑	22UF	↑	50VDC	40517
C19	1006755-134	CAPACITOR	22UF	± 10%	50VDC	

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING	CIRCUIT NO. USED ON
L1	1010406-7	INDUCTOR	8.2 UH			40510
L2	↑	↑	↑	↑	↑	40511
L3	↑	↑	↑	↑	↑	
L4	↑	↑	↑	↑	↑	
L5	↑	↑	↑	↑	↑	
L6	↑	↑	↑	↑	↑	40512
L7	↑	↑	↑	↑	↑	
L8	↑	↑	↑	↑	↑	
L9	↑	↑	↑	↑	↑	
L10	↑	↑	↑	↑	↑	40513
L11	↑	↑	↑	↑	↑	
L12	↑	↑	↑	↑	↑	
L13	1010406-7	INDUCTOR	8.2 UH			40514
CR1	1006751	DIODE				40501
CR2	↑	↑	↑	↑	↑	40502
CR3	↑	↑	↑	↑	↑	40503
CR4	↑	↑	↑	↑	↑	40516
CR5	1006751	↑	↑	↑	↑	40517
CR6	1006838	↑	↑	↑	↑	
CR7	1006838	↑	↑	↑	↑	
CR8	1006751	DIODE				
Q1	1006752	TRANSISTOR				40501
Q2	1006752	↑	↑	↑	↑	40502
Q3	1006753	↑	↑	↑	↑	40503
Q4	1006753	↑	↑	↑	↑	40516
Q5	1006752	↑	↑	↑	↑	
Q6	↑	↑	↑	↑	↑	
Q7	↑	↑	↑	↑	↑	
Q8	↑	↑	↑	↑	↑	40517
Q9	1006752	↑	↑	↑	↑	
Q10	1006753	↑	↑	↑	↑	
Q11	1006752	↑	↑	↑	↑	
Q12	1006752	↑	↑	↑	↑	40518
Q13	1006753	TRANSISTOR				

R18		
DASH NO.	Q1MS ± 2%	
1006750-116	1050	
↑	33	1100
↑	117	1150
↑	34	1200
↑	118	1250
↑	35	1300
↑	119	1400
↑	36	1500
1006750-37	1600	

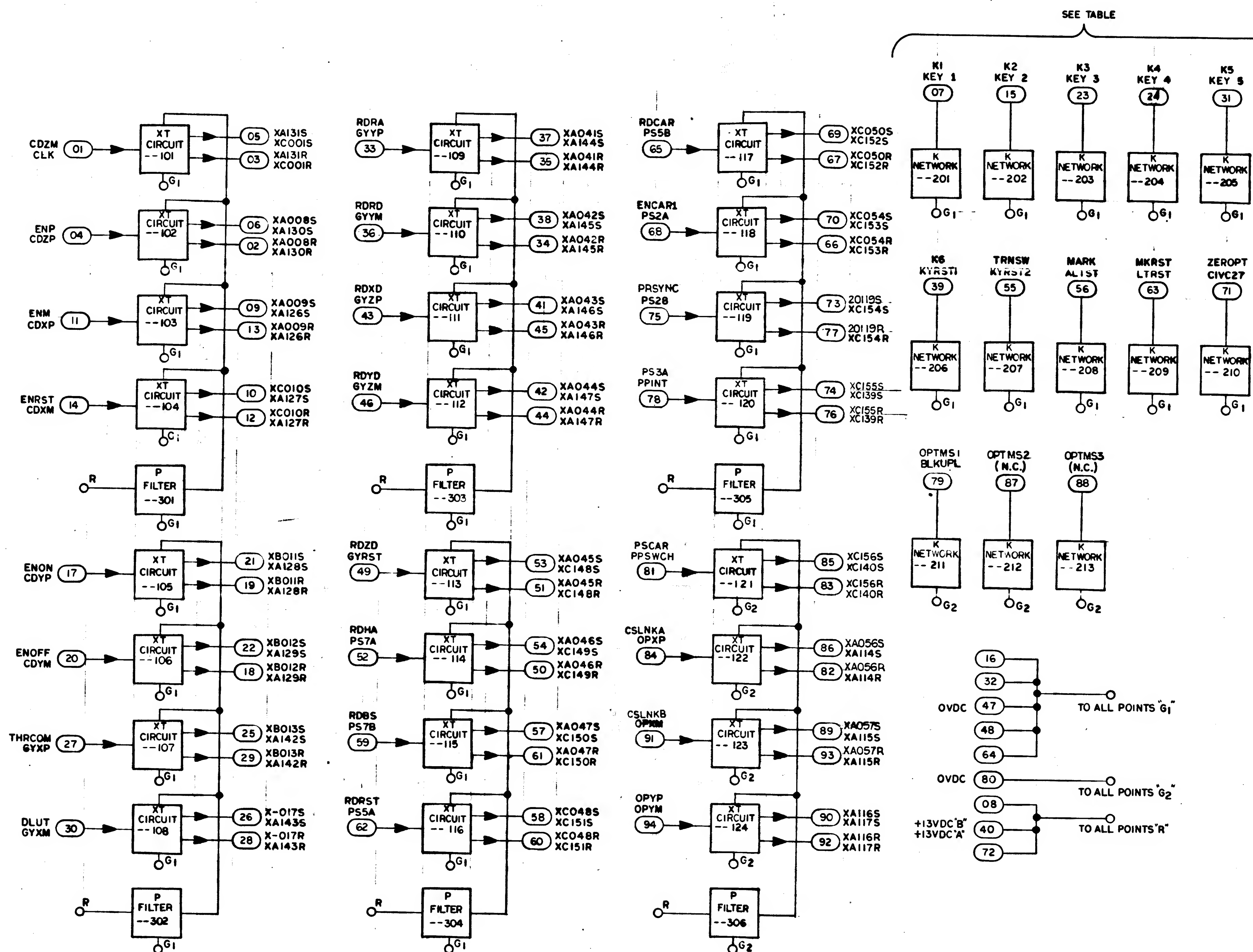
⊖ REPLACES 1006189 WITH CHANGES

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FINO NO
LIST OF MATERIALS			
Manned Spacecraft Center HOUSTON, TEXAS			
SCHEMATIC.			
STRAND GATE MODULE B31			
CODE IDENT NO SIZE E 1006199			
SHEET 2 OF 2			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES CHECKED <i>[Signature]</i> APPROVAL <i>[Signature]</i> MATERIAL <i>[Signature]</i>	HEAT TREATMENT FINISH <i>[Signature]</i>	MIT APPROVAL <i>[Signature]</i>
NEXT ASSY	USED ON	APPLICATION

NOTES: 1. THIS DRAWING IS THE PROPERTY OF NASA. IT IS TO BE USED FOR THE PURPOSES SPECIFIED IN THE CONTRACT. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM NASA. 2. THIS DRAWING IS THE PROPERTY OF NASA. IT IS TO BE USED FOR THE PURPOSES SPECIFIED IN THE CONTRACT. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM NASA.

REV	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 05/19/77	10/1/77	1/1
B	REVISED PER TDRR 07/30/77	10/1/77	1/1

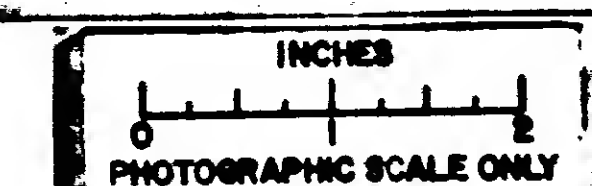


PIN NO.	SIGNAL NAME	CIRCUIT SIGNAL NO.
07	K1	KE158
15	KEY 1	KE201
23	KEY 2	KE159
24	KEY 3	KE160
31	KEY 4	KE161
39	KEY 5	KE162
47	K6	KE163
55	KYRST1	K-209
56	TRNSW	KE164
63	KYRST2	K-206
71	MARK	KE102
79	ALTST	K-207
87	MKRST	K-103
88	LTRST	K-208
	ZOPT	KE104
	CIVC27	KE210
	OPTMS1	KE105
	BLKUPL	KE246
	OPTMS2	KE106
	(N.C.)	
	OPTMS3	KE107
	(N.C.)	

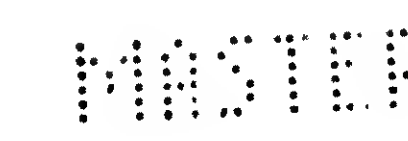
- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. CIRCUIT NUMBERS FOR COMPUTER POSITION 20 ARE PREFIXED BY 72
 3. CIRCUIT NUMBERS FOR COMPUTER POSITION 40 ARE PREFIXED BY 74
 4. UPPER SIGNAL NAME USED IN COMPUTER POSITION 20
 5. LOWER SIGNAL NAME USED IN COMPUTER POSITION 40
 6. (N.C.) DENOTES NO CONNECTION WHEN MODULE USED IN POSITION INDICATED

REFERENCE DRAWINGS:
1006009 XT TRANSFORMER OUTPUT CIRCUIT
1006088 INTERFACE CIRCUITS

MASTER



QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FINO NO.
LIST OF MATERIALS			
M.I.T. INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER	
DRAWN: [Signature] DATE: 05/19/77		HOUSTON, TEXAS	
CHECKED: [Signature]		FLOW DIAGRAM	
APPROVAL: [Signature]		INTERFACE MODULE	
NASA APPROVAL: [Signature] 7-17-63		A20 OR A40	
MIT APPROVAL: [Signature]		E 1006535	
APPLICATION		SCALE: [Blank] WT: [Blank] SHEET 1 OF 1	



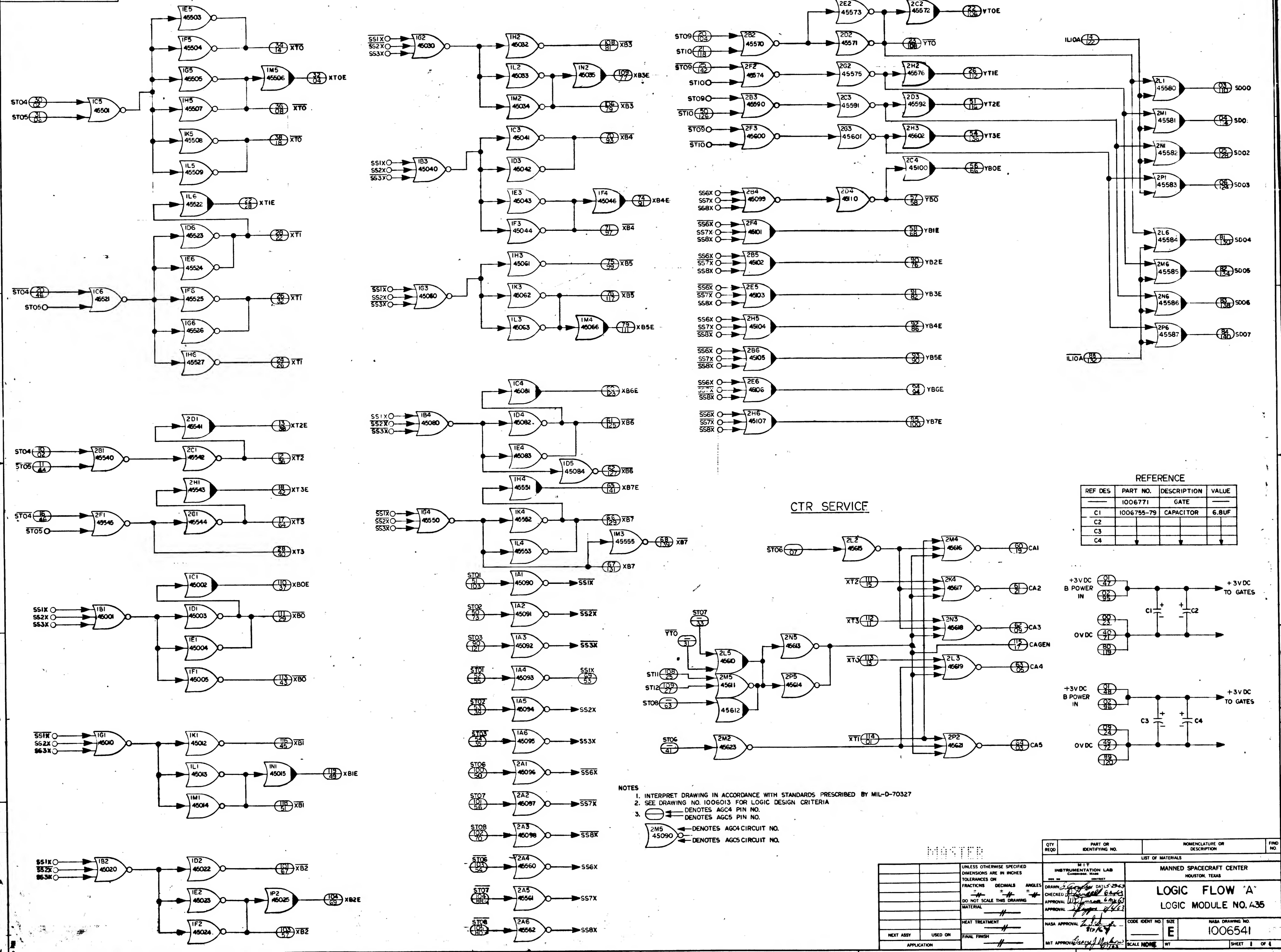
THE DASHES(--) REFER TO THE BIT POSITION NO. OF THE CIRCUIT IN THE COMPUTER
4. DASHES(--) FOLLOWING SOME SIGNALS REFER TO THE BIT POSITION NO. OF THOSE
SIGNALS AS USED IN THE COMPUTER
5. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA

QTY _____ UNIT _____		PART OR IDENTIFYING NO. _____		NOMENCLATURE OR DESCRIPTION _____		FW NO. _____	
		LIST OF MATERIALS _____					
		MANNED SPACECRAFT CENTER HOUSTON, TEXAS					
		B.I.T. INSTRUMENTATION LAB CAMPBELL, MISSOURI					
		DRW NO. _____ DRAWN BY _____ DATE <u>6/20/63</u> CHECKED BY <u>W. H. HARRIS</u> DATE <u>6/20/63</u> APPROVAL <u>W. H. HARRIS</u> DATE <u>6-21-63</u> APPROVAL <u>W. H. HARRIS</u> DATE <u>6-21-63</u>					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ±		LOGIC FLOW, BIT LOGIC MODULE NO. A1 - A15					
DO NOT SCALE THIS DRAWING MATERIAL _____							
NEXT ASSY _____ USED ON _____		NABA DRAWING NO. _____ SIZE <u>E</u> NABA DRAWING NO. <u>1006540</u>					
FINAL FINISH _____		NABA APPROVAL <u>W. H. HARRIS</u> NAB APPROVAL <u>W. H. HARRIS</u> SCALE <u>1:1</u> WT _____ SHEET # <u>1</u> OF <u>1</u>					

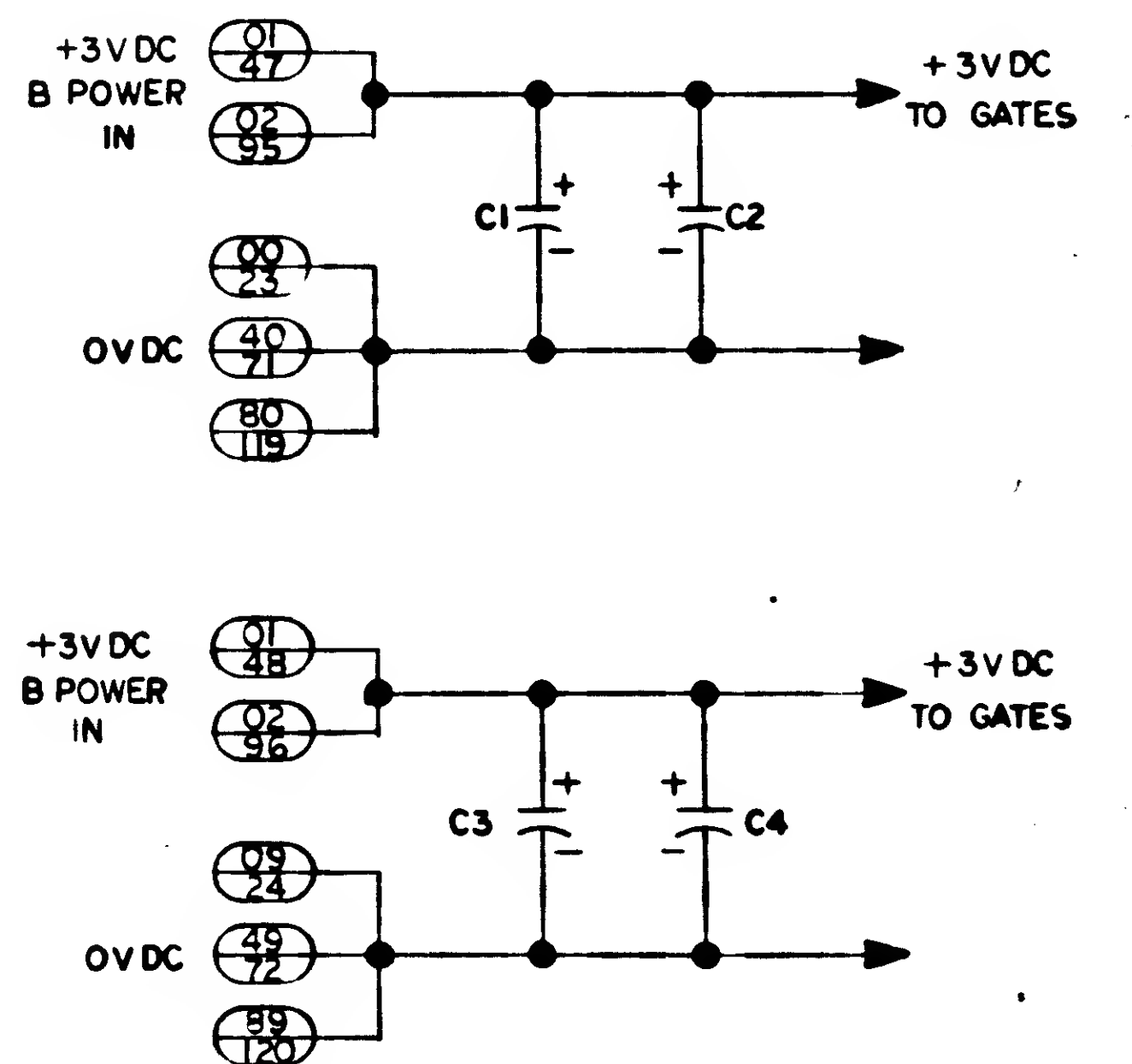
MEMORY ADDRESSING

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
2. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA.
3. DENOTES AGC4 PIN NO.
4. DENOTES AGC5 PIN NO.
5. DENOTES AGC4 CIRCUIT NO.
6. DENOTES AGC5 CIRCUIT NO.

REV	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 00130	10-10-73	111
B	REVISED PER TDRR 00503	11-11-73	111



REF DES	PART NO.	DESCRIPTION	VALUE
C1	1006771	GATE	
C2	1006755-79	CAPACITOR	6.8UF
C3			
C4			



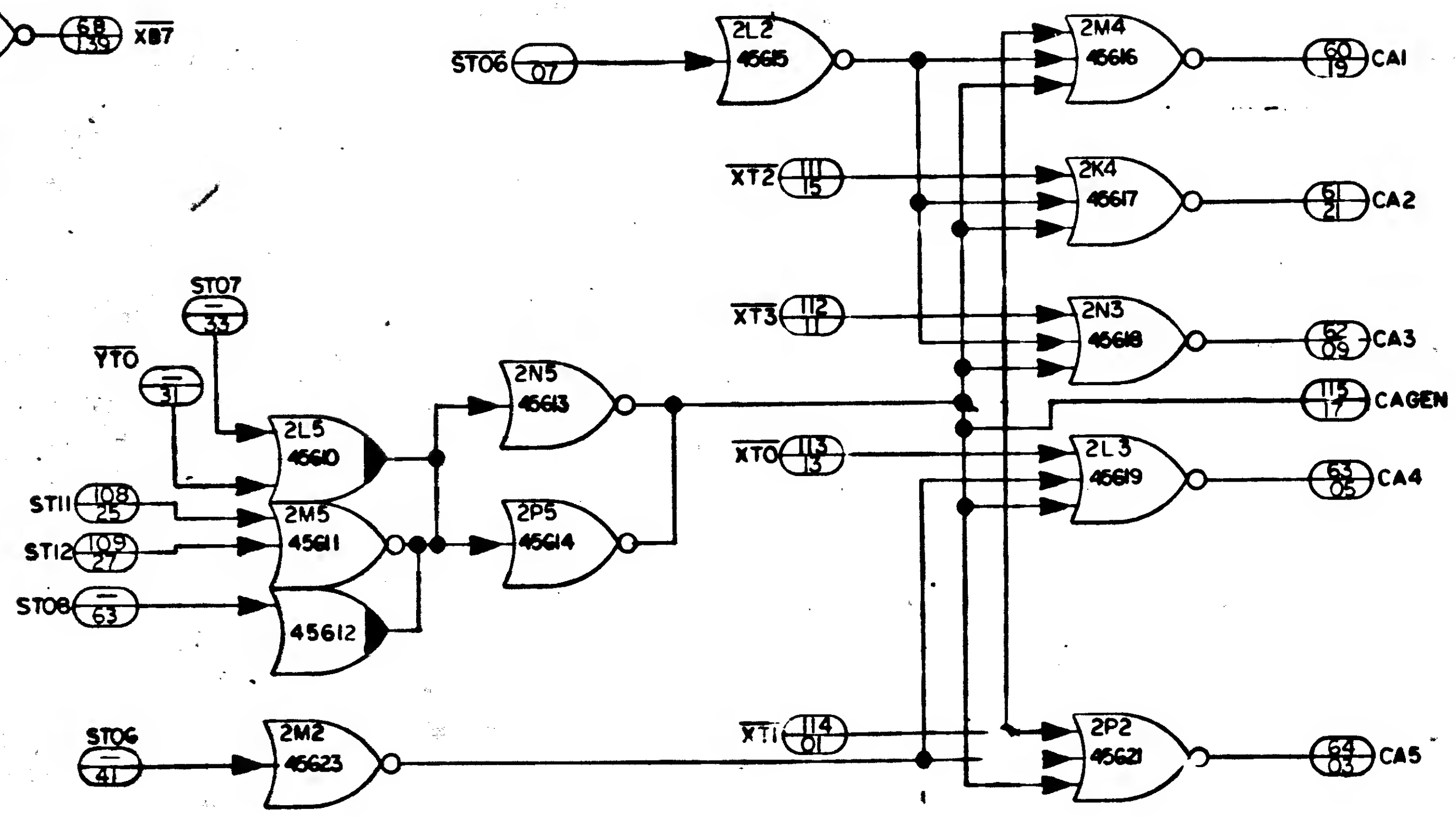
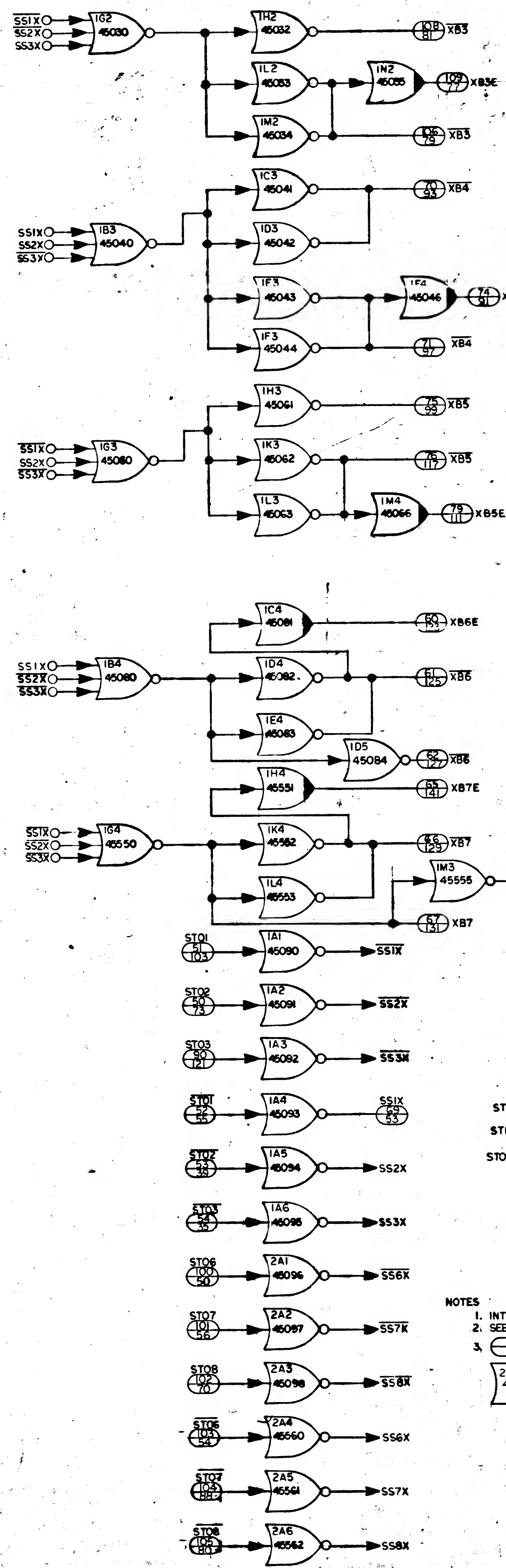
- NOTES
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 - SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA
 - DENOTES AGC4 PIN NO.
 - DENOTES AGC5 PIN NO.
 - DENOTES AGC4 CIRCUIT NO.
 - DENOTES AGC5 CIRCUIT NO.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FINO NO.
LIST OF MATERIALS			
M I T INSTRUMENTATION LAB			
MANNED SPACECRAFT CENTER			
HOUSTON, TEXAS			
LOGIC FLOW 'A'			
LOGIC MODULE NO. A35			
NASA APPROVAL		CODE IDENT NO.	SIZE
E		1006541	
SCALE		MT	WT
SHEET		OF 1	

INCHES
PHOTOGRAPHIC SCALE ONLY

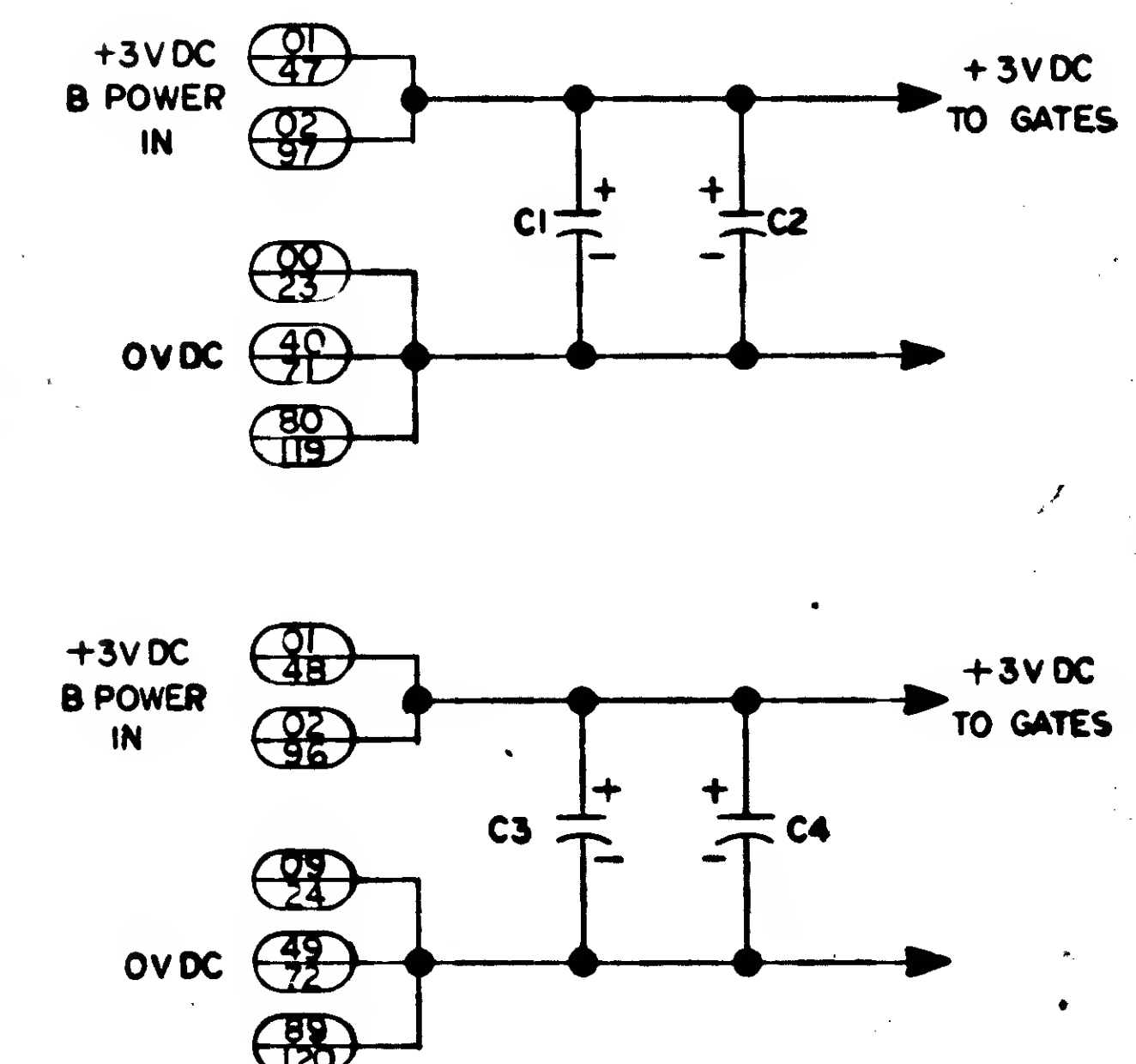
1006541 B



REVISIONS 02344			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TORR 04150	10-10-23	UK 444



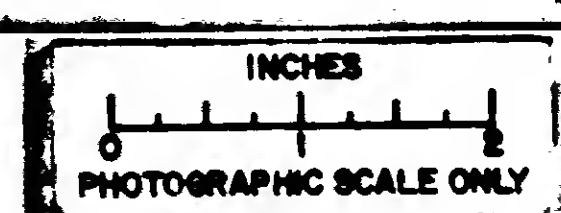
REFERENCE

REF DES	PART NO.	DESCRIPTION	VALUE
—	1006771	GATE	—
C1	1006755-79	CAPACITOR	6.8UF
C2			
C3			
C4			

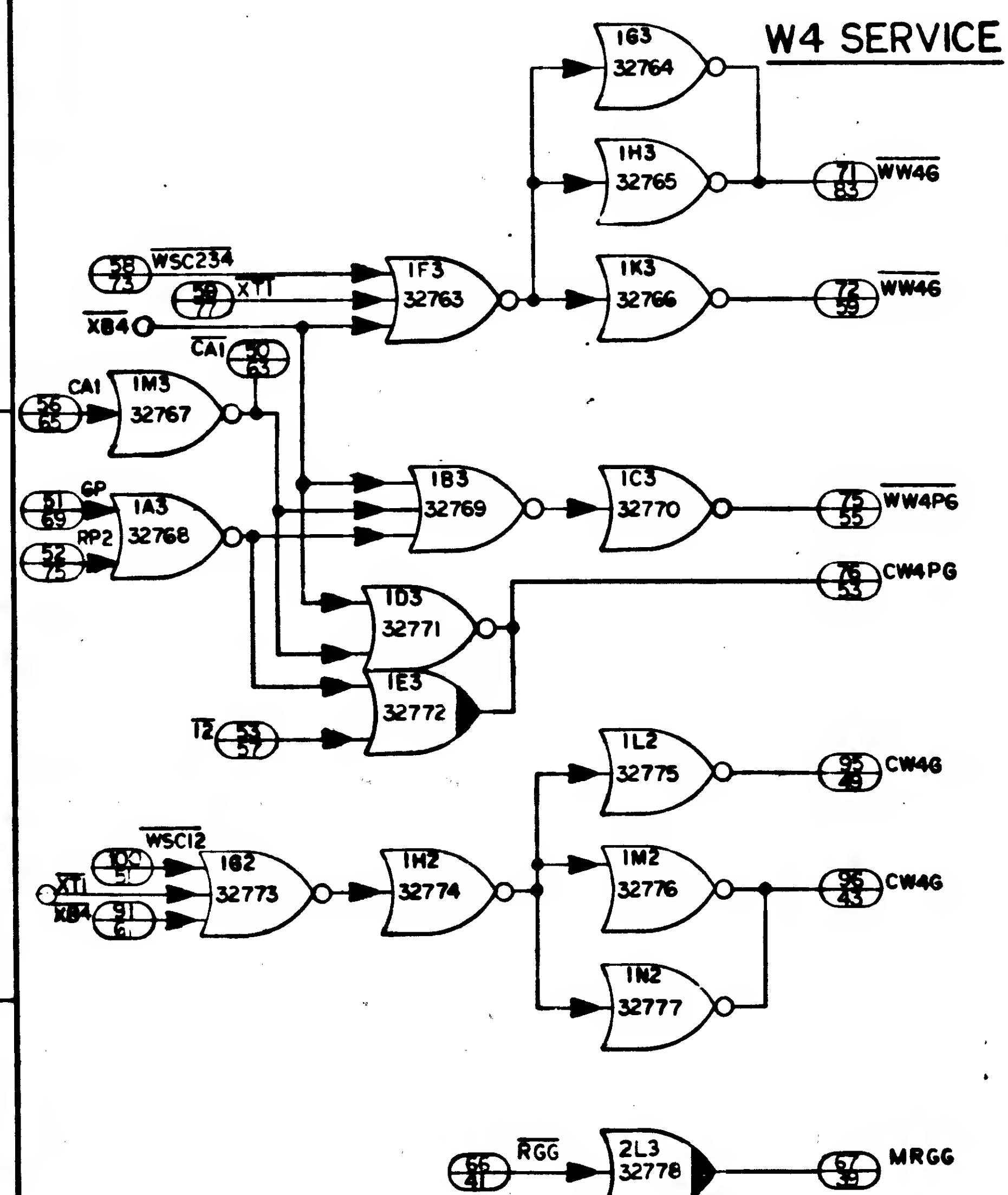
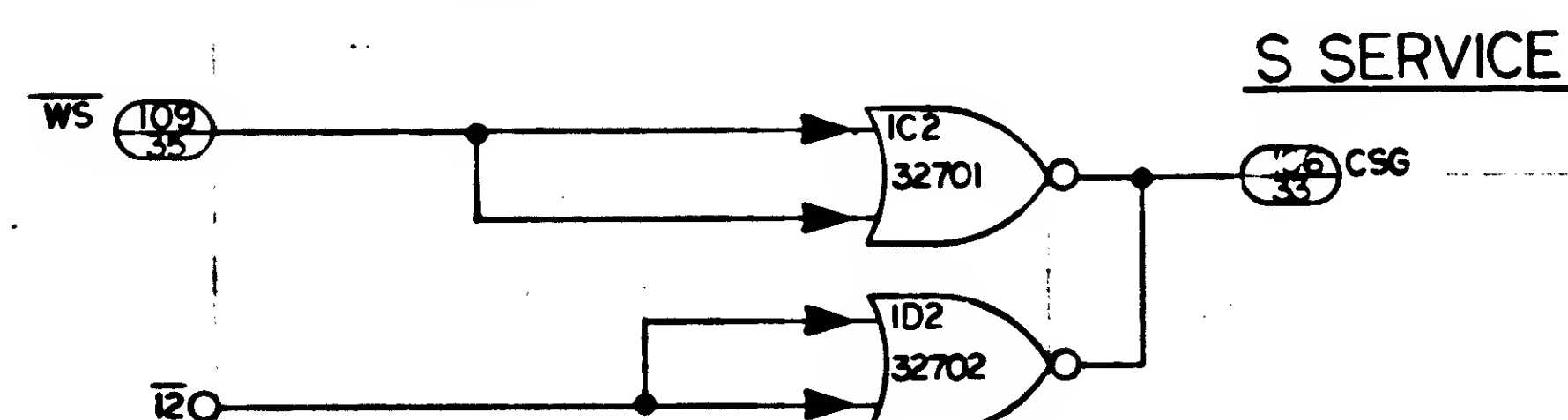
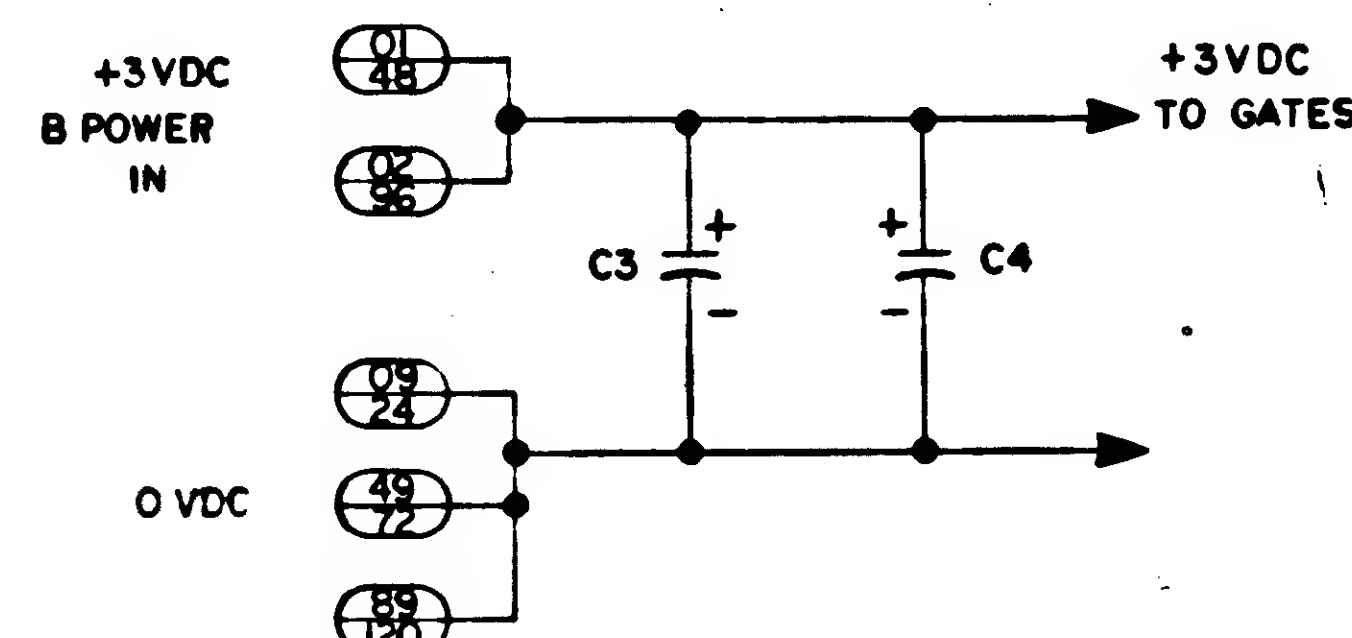
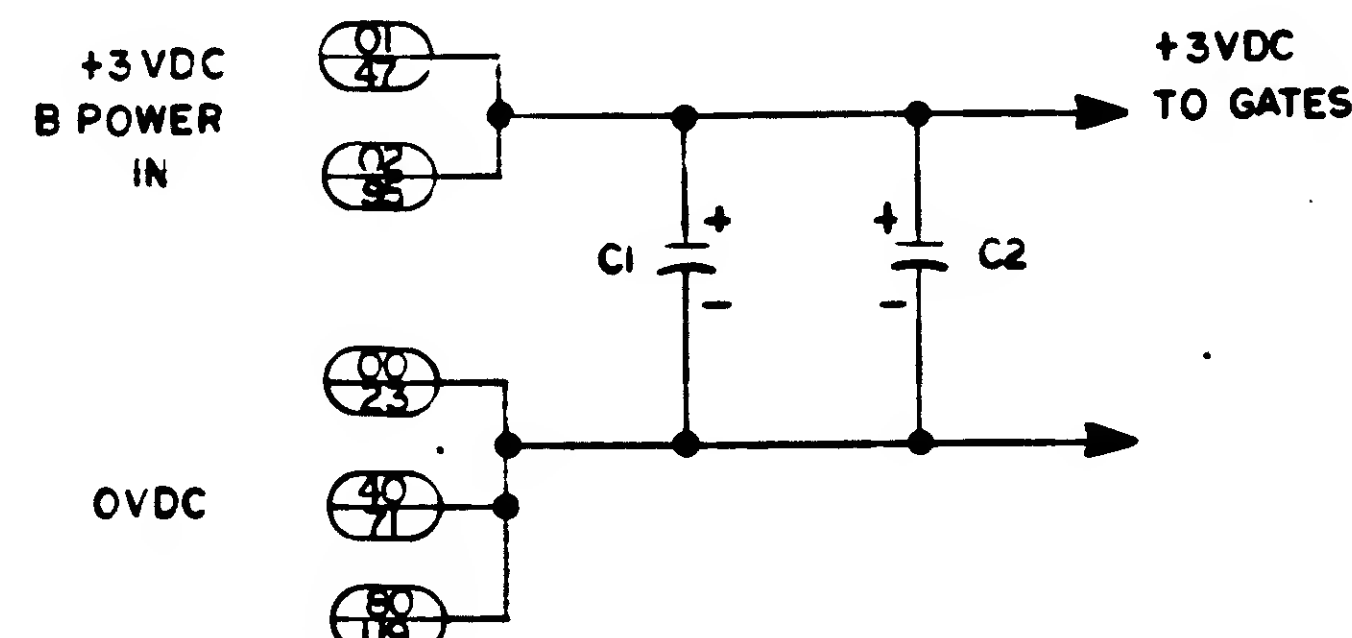




- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-7032
 2. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA
 3. 


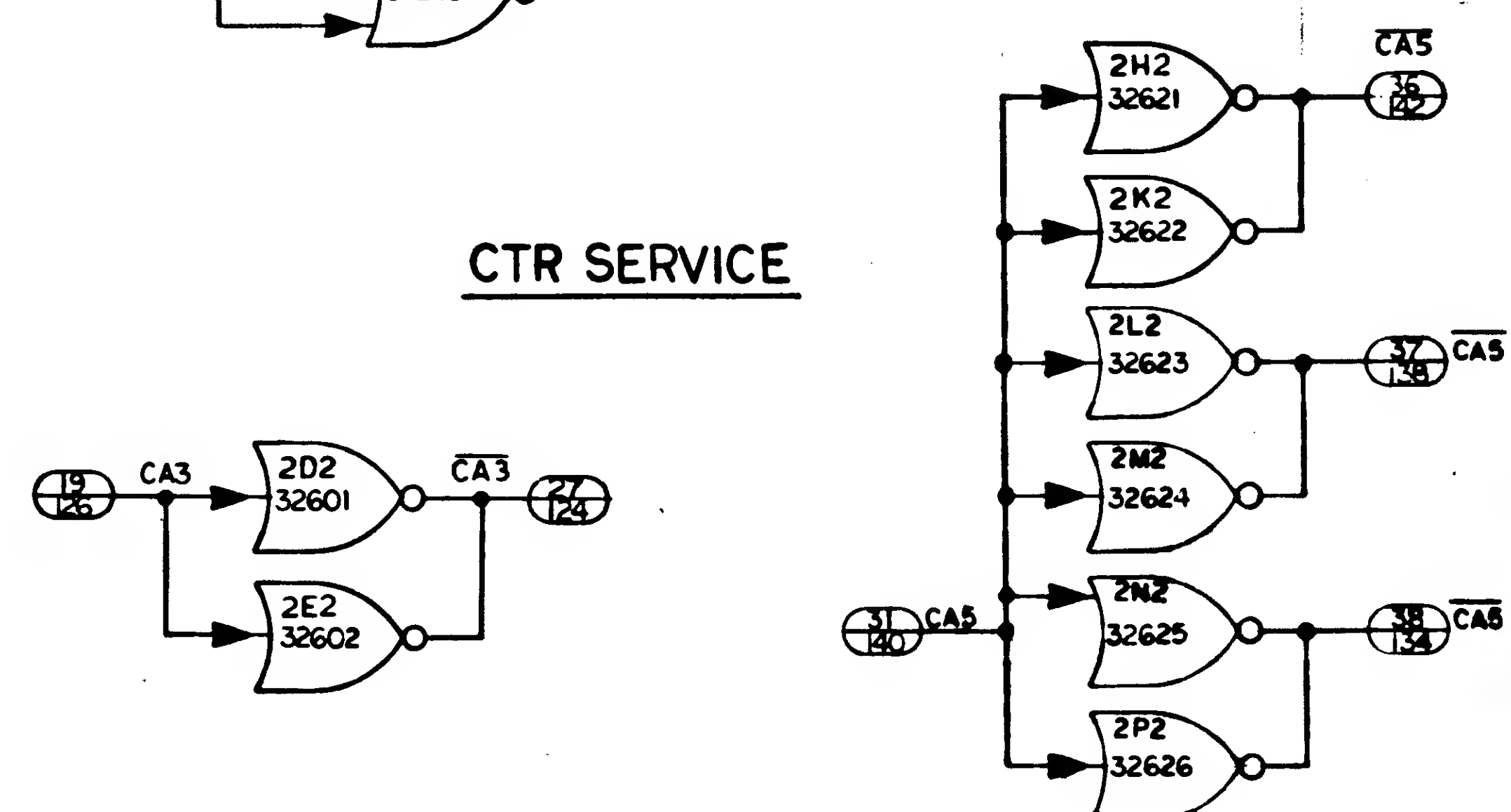
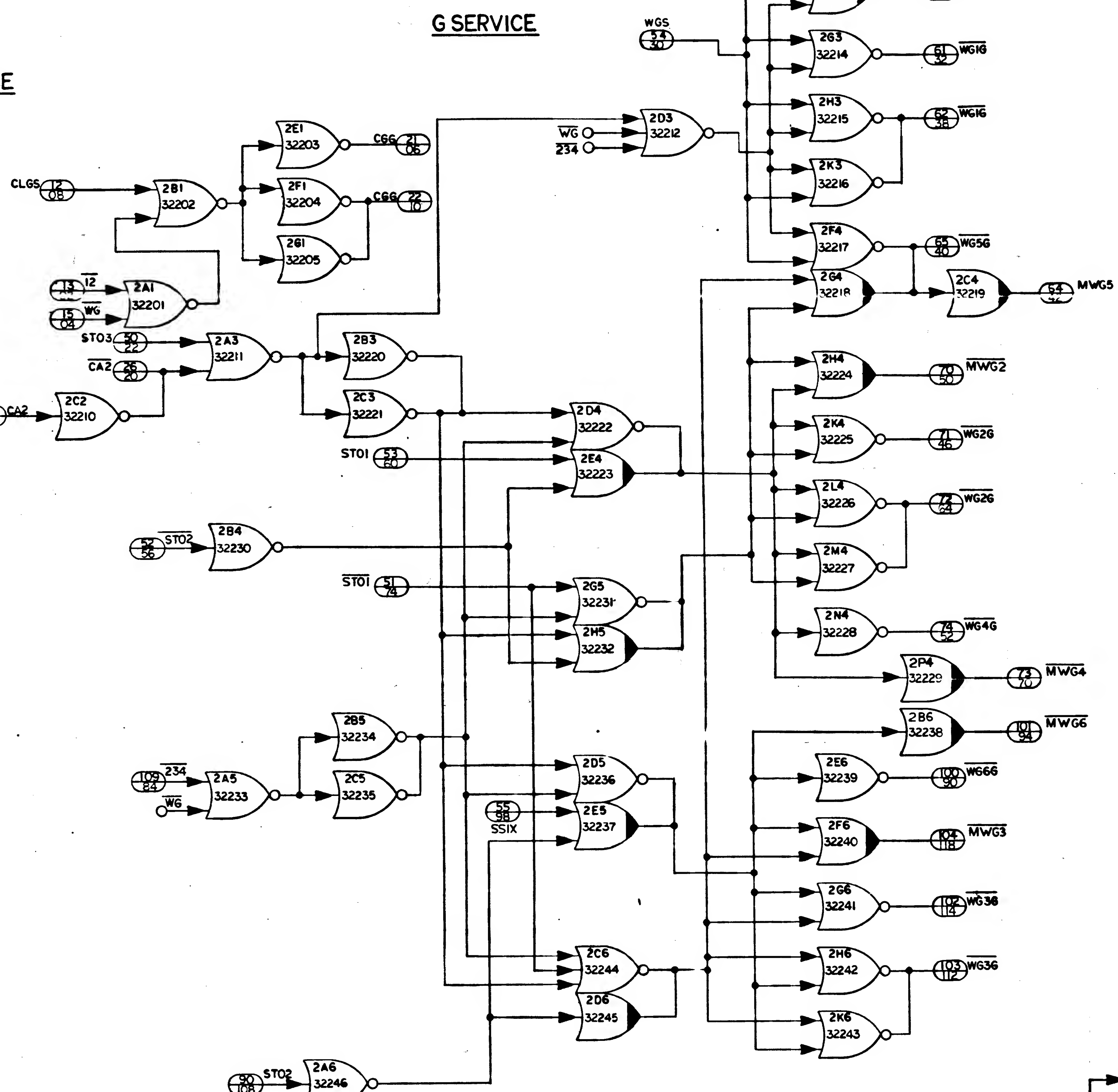
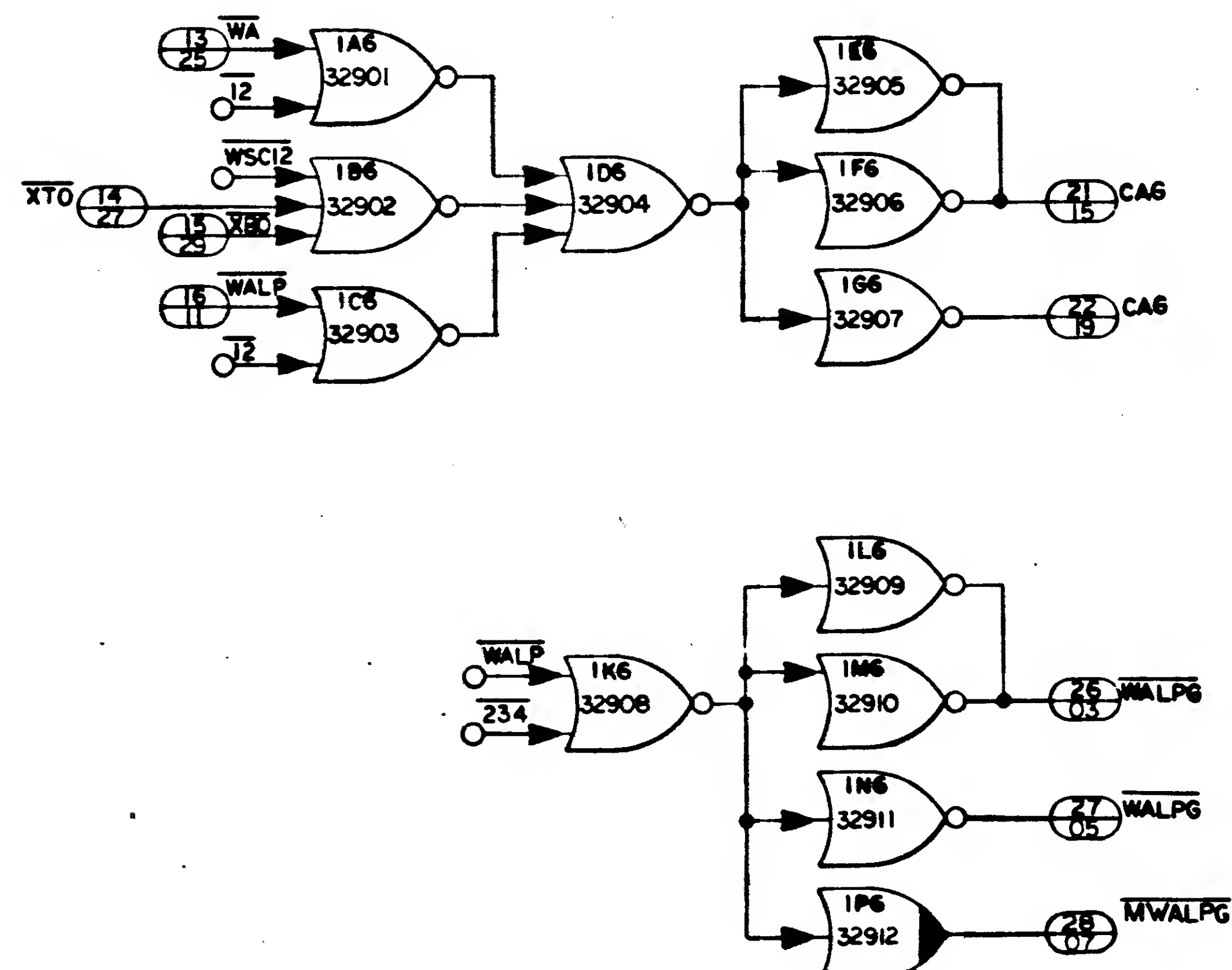
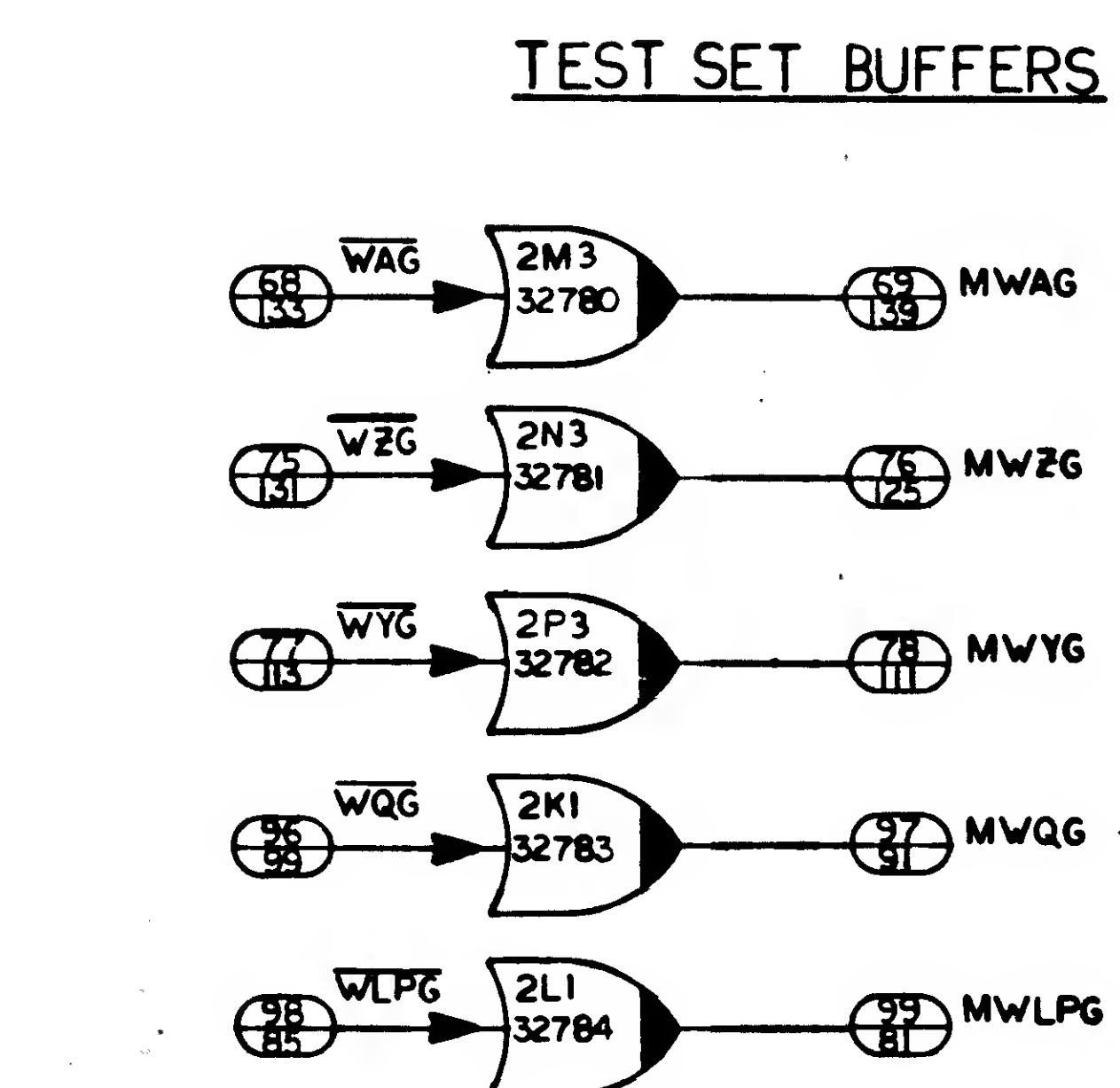
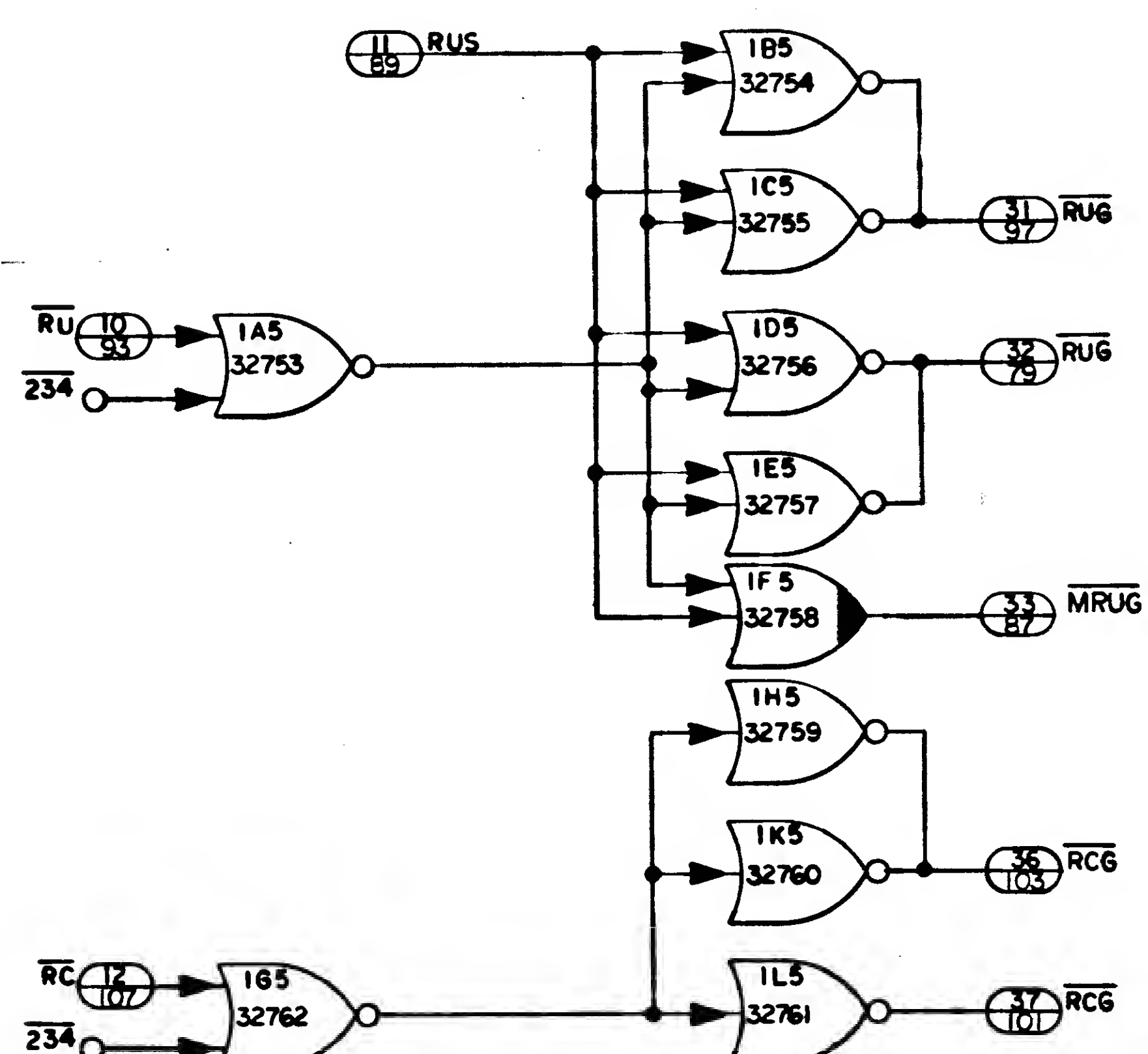
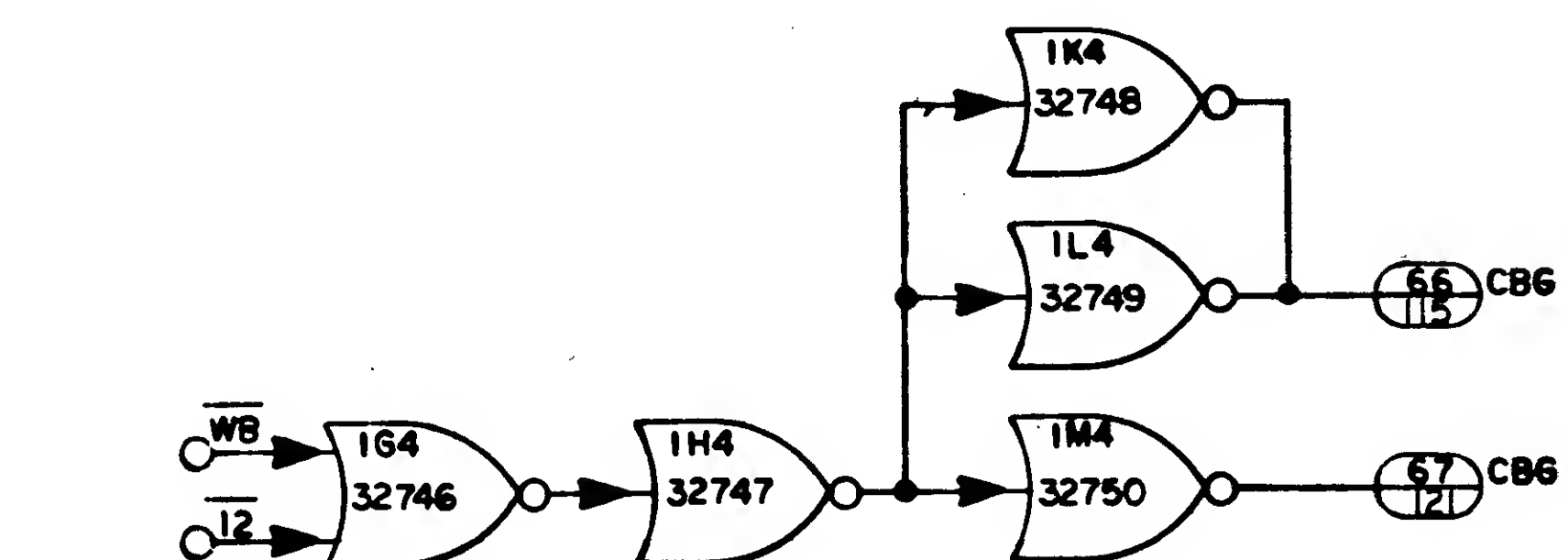
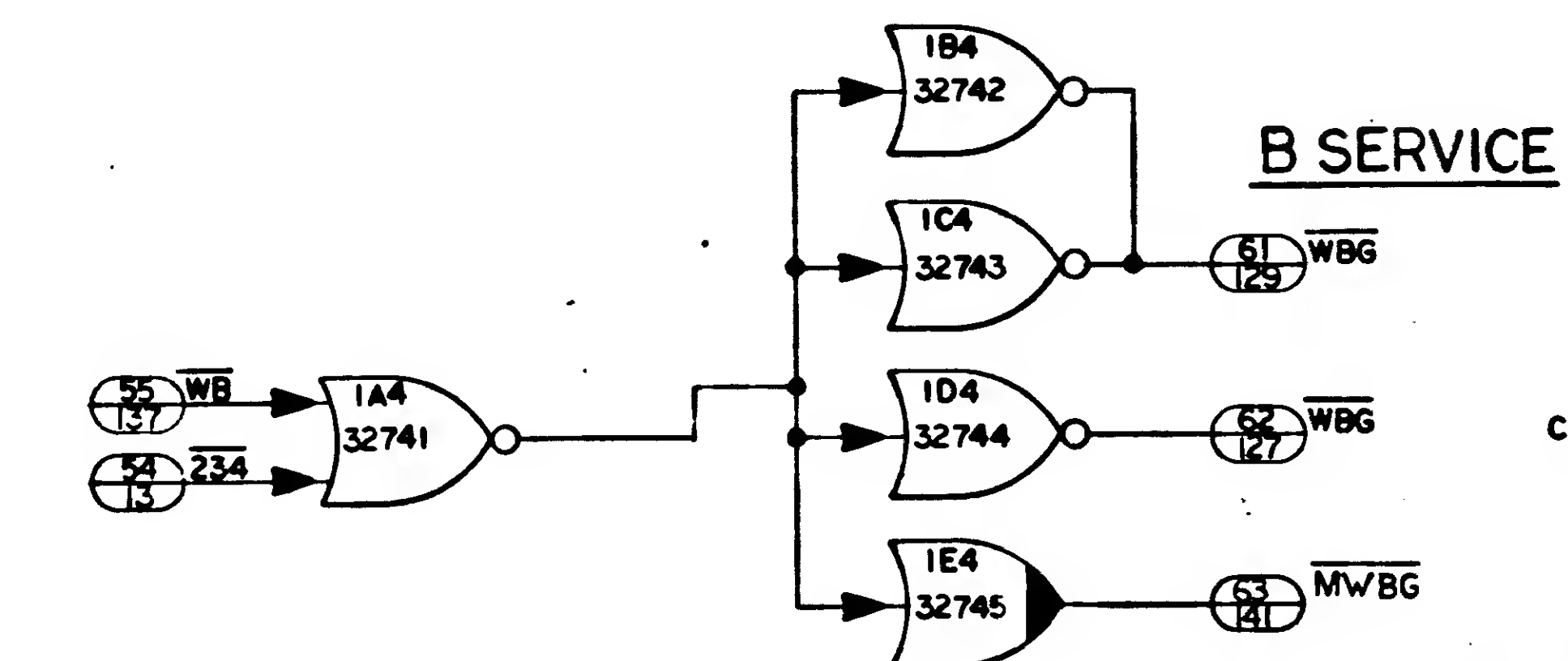
MASTER				QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FINO NO			
LIST OF MATERIALS													
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES = ± ± DO NOT SCALE THIS DRAWING MATERIAL ± HEAT TREATMENT ± NEXT ASSY USED ON FINAL FINISH ± APPLICATION ±				MTF INSTRUMENTATION LAB Customer Order WORK NO CONTRACT DRAWN <i>[Signature]</i> DATE <i>2-28-63</i> CHECKED <i>[Signature]</i> APPROVAL <i>[Signature]</i> 4 Feb 63 APPROVAL <i>[Signature]</i> 4 Feb 63				MANNED SPACECRAFT CENTER HOUSTON, TEXAS LOGIC FLOW "A" LOGIC MODULE NO 436					
				NASA APPROVAL <i>[Signature]</i> 2/28/63				CODE IDENT. NO.		SIZE		NASA DRAWING NO. 1006541	
				MTF APPROVAL <i>[Signature]</i>				SCALE <u>NONE</u>		WT		SHEET <u>1</u> OF <u>4</u>	



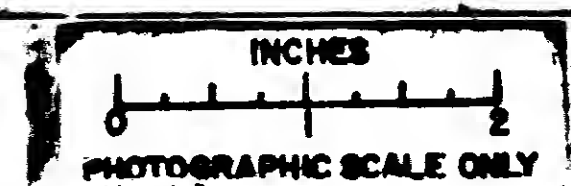
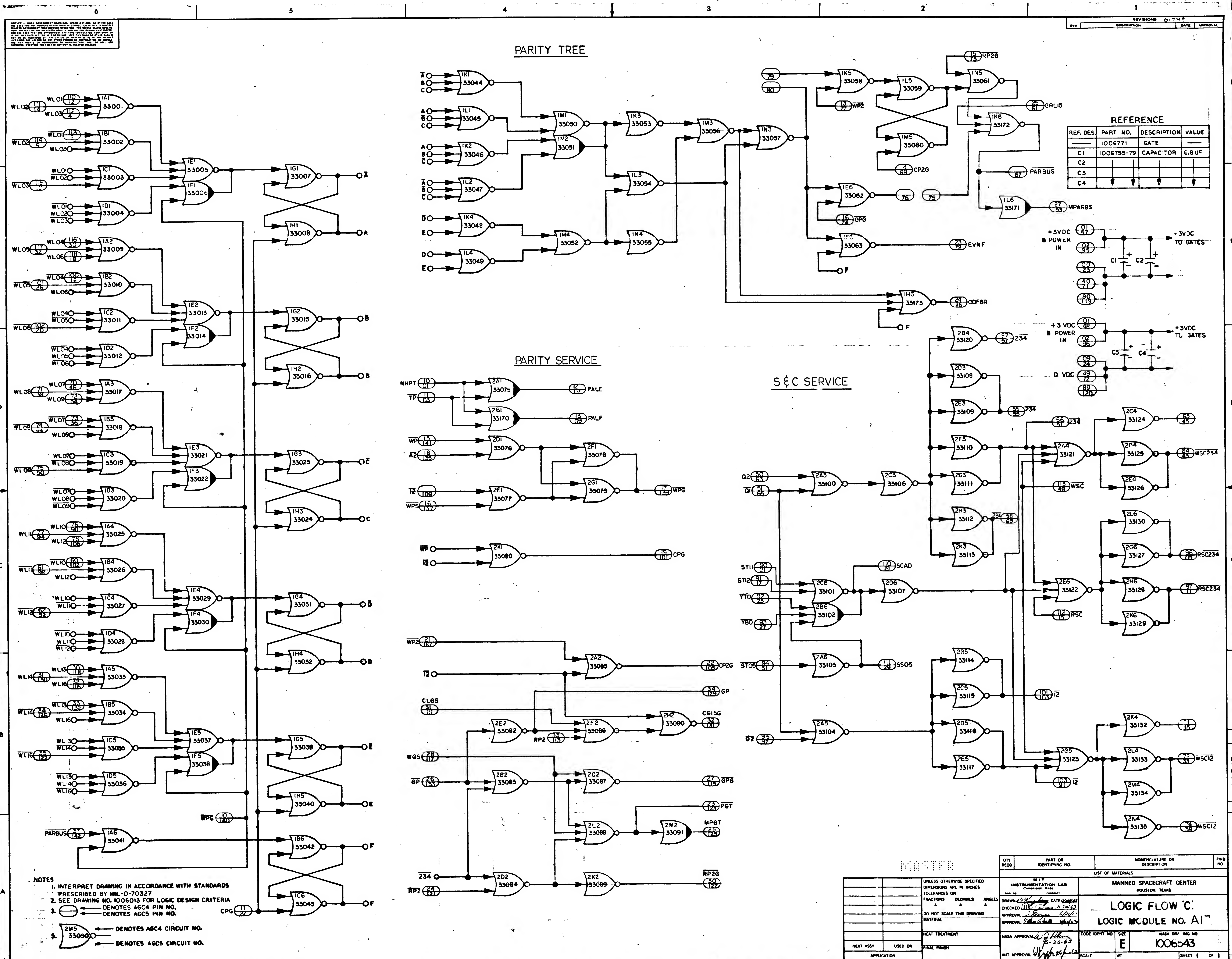
REF. DES	PART NO.	DESCRIPTION	VALUE
—	1006771	GATE	—
C1	1006755-79	CAPACITOR	6.8 UF
C2	1006755-79		6.8 UF
C3	1006755-79		6.8 UF
C4	1006755-79		6.8 UF



- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA
 3.  DENOTES AGC4 PIN NO.
DENOTES AGC5 PIN NO.
 4.  DENOTES AGC4 CIRCUIT NO.
DENOTES AGC5 CIRCUIT NO.

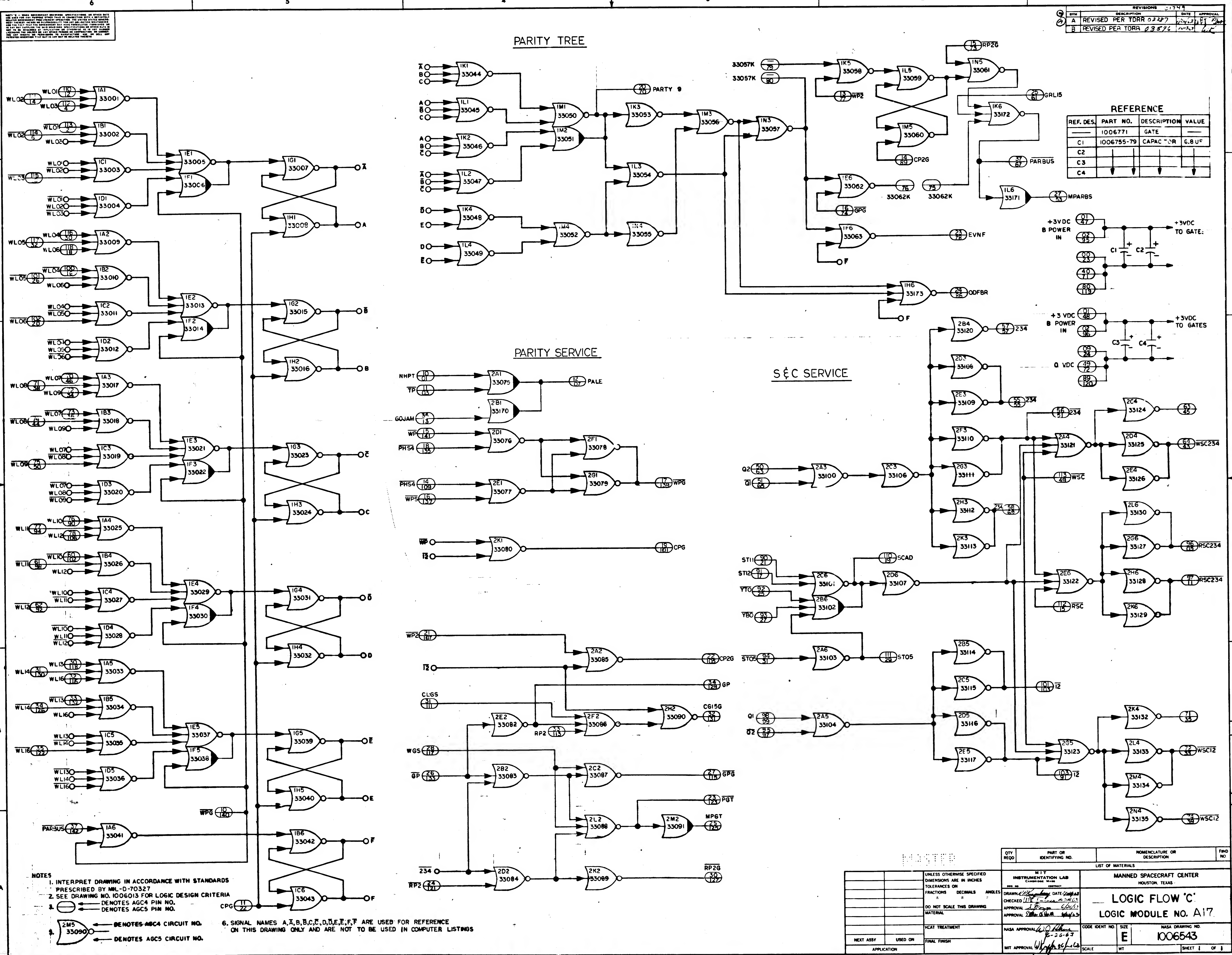


<div style="text-align: center;">PAPER</div>						QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FR IN					
								LIST OF MATERIALS									
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL → HEAT TREATMENT → NEXT ASSY USED ON → APPLICATION FINAL FINISH →								CITY INSTRUMENTATION LAB <small>COLUMBIA ROAD</small> HOUSTON TEXAS				MANNED SPACECRAFT CENTER HOUSTON, TEXAS					
								DRWNG BY <u>W.B. Brown</u> DATE <u>5-29-60</u>				LOGIC FLOW B					
								CHECKED <u>W.B. Brown</u>				LOGIC MODULE NO.A18					
								APPROVAL <u>[Signature]</u>									
								NASA APPROVAL <u>[Signature]</u>				CODE IDENT NO		SIZE		NASA DRAWING NO	
								MIT APPROVAL <u>[Signature]</u>				SCALE ---		WT		SHEET OF	
														E		1006542	



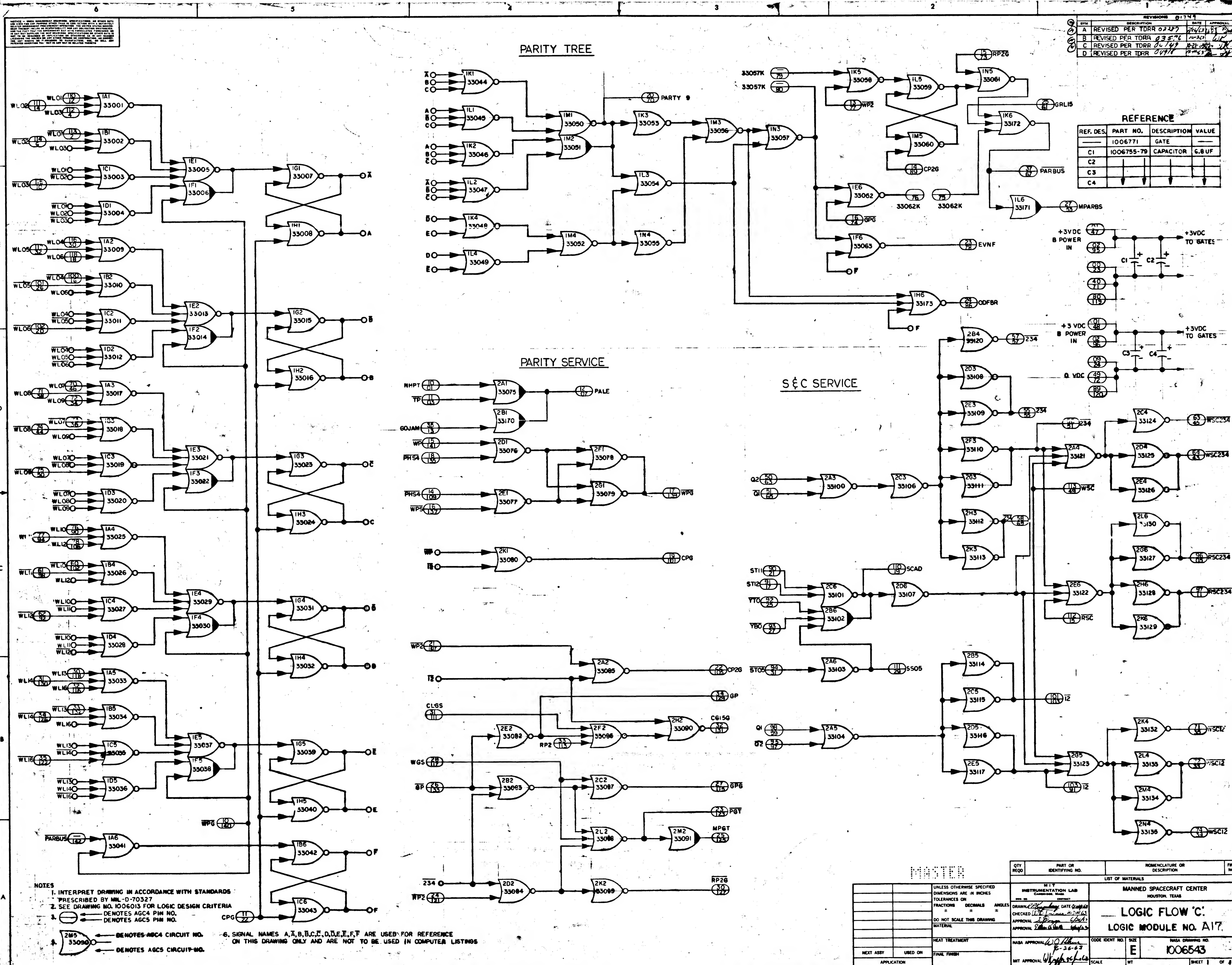
REV	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TORR 02287	12/15/63	W. J. P.
B	REVISED PER TORR 02576	12/23/63	W. J. P.

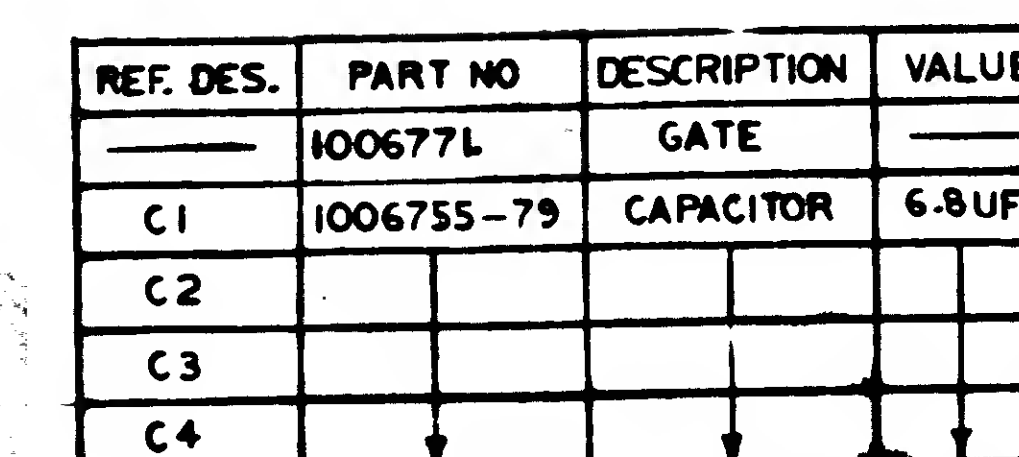
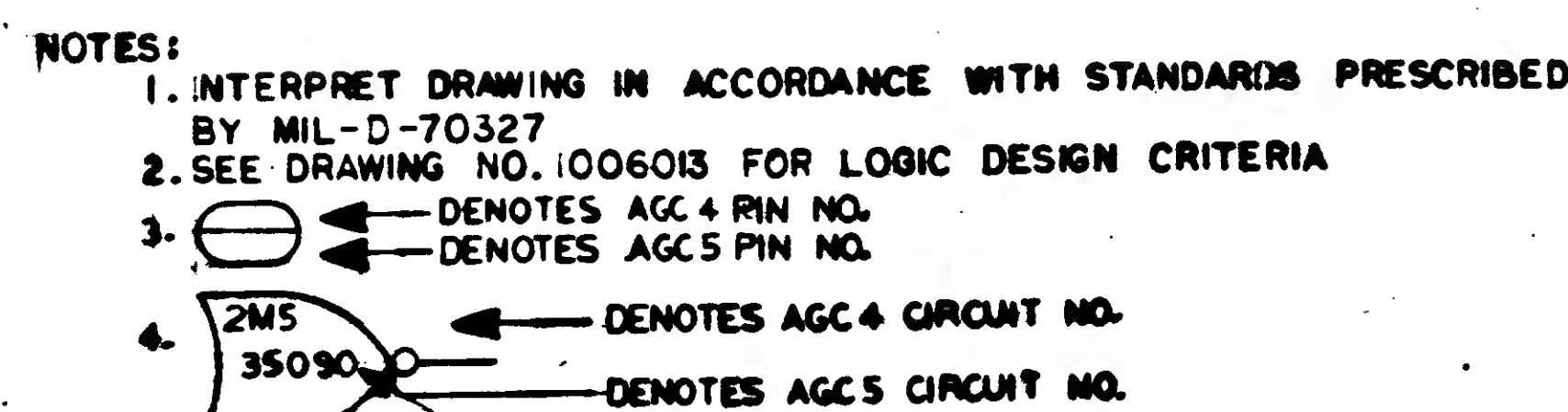
REF. DES.	PART NO.	DESCRIPTION	VALUE
C1	1006771	GATE	
C2	1006755-79	CAPACITOR	6.8 U ^F
C3			
C4			



- NOTES**
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 - SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA
 - DENOTES AGC4 PIN NO.
 - DENOTES AGC5 PIN NO.
 - 2M5 — DENOTES AGC4 CIRCUIT NO.
 - 33090 — DENOTES AGC5 CIRCUIT NO.
 - SIGNAL NAMES A, B, C, D, E, F ARE USED FOR REFERENCE ON THIS DRAWING ONLY AND ARE NOT TO BE USED IN COMPUTER LISTINGS

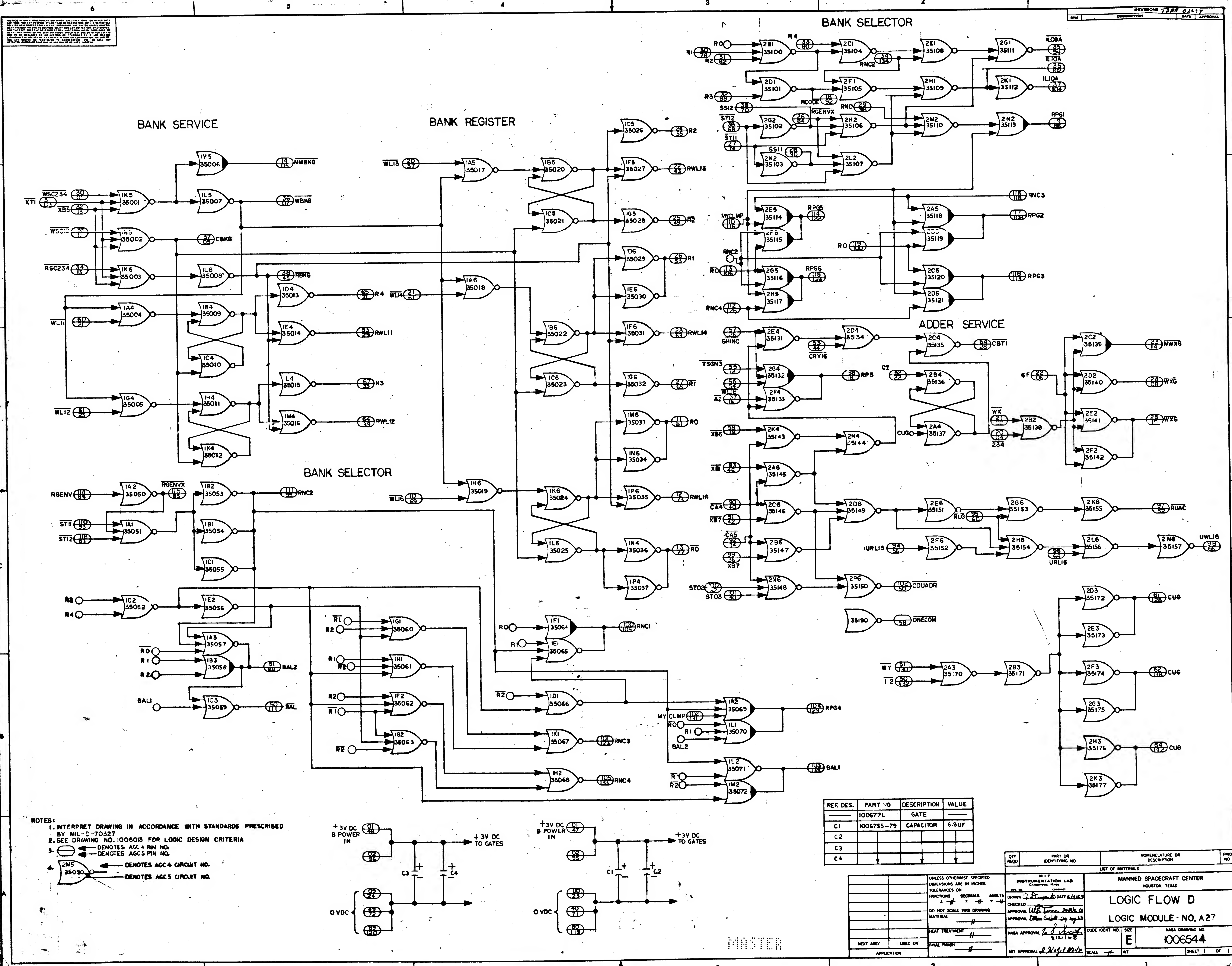
QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
LIST OF MATERIALS							
M.I.T. INSTRUMENTATION LAB				MANNED SPACECRAFT CENTER			
DRAWN: [Signature] DATE: 12/15/63				CHECKED: [Signature] DATE: 12/15/63			
APPROVAL: [Signature] DATE: 12/15/63				APPROVAL: [Signature] DATE: 12/15/63			
NASA APPROVAL: [Signature] DATE: 12/15/63				NASA APPROVAL: [Signature] DATE: 12/15/63			
NEXT ASSY				USED ON			
APPLICATION				FINAL FINISH			
SCALE				SCALE			
SHEET 1 OF 1				SHEET 1 OF 1			



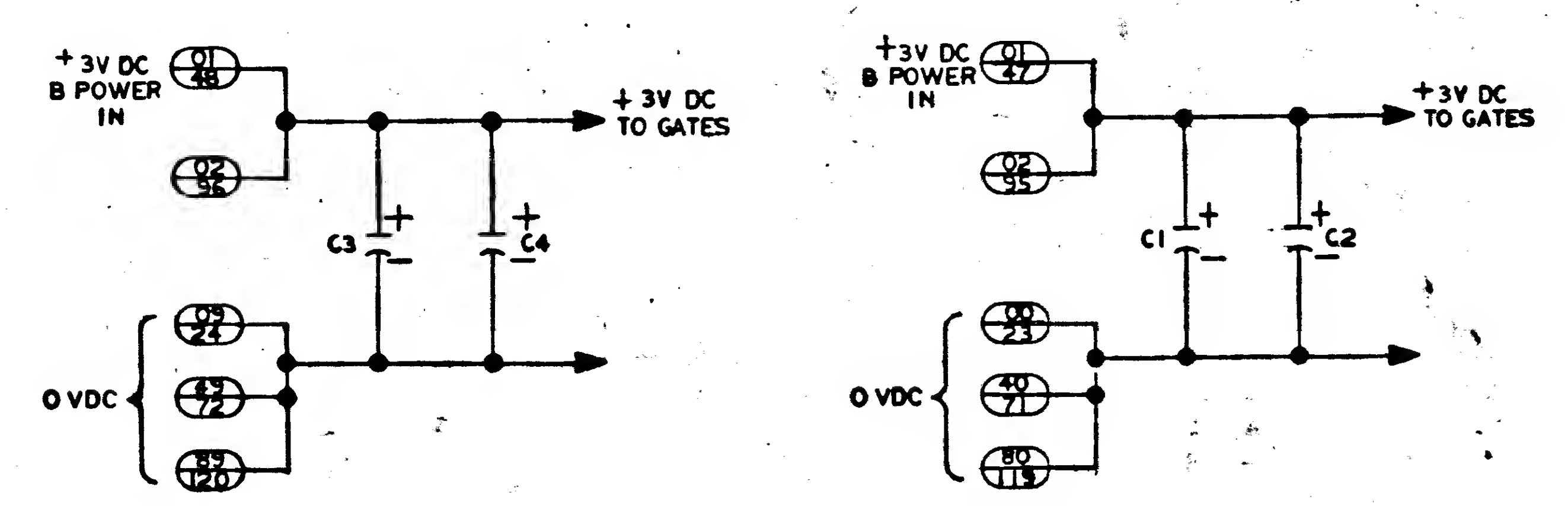


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES OVERSIZES \pm \pm \pm \pm	DRAWING DATE 6/26/63 CHECKED WBS jmm 20/6/63 APPROVAL [Signature] 20/6/63	MANNED SPACECRAFT CENTER HOUSTON TEXAS	
		LOGIC HOU D LOGIC MODULE - NO. A27	
DO NOT SCALE THIS DRAWING MATERIAL _____	NASA APPROVAL [Signature] 8/11/63	CODE IDENT NO	NASA DRAWING NO.
HEAT TREATMENT _____	MET APPROVAL [Signature] 8/26/63	SIZE	1006544
NEAT FINISH _____		SCALE $\frac{1}{4}$ " = 1"	WT

MASTER

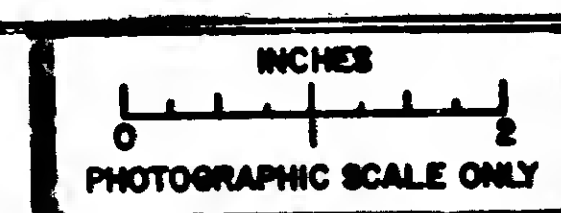


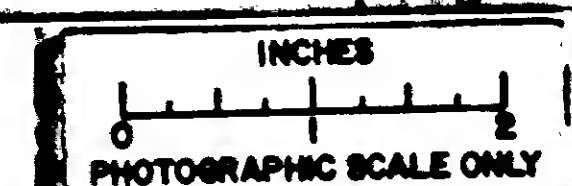
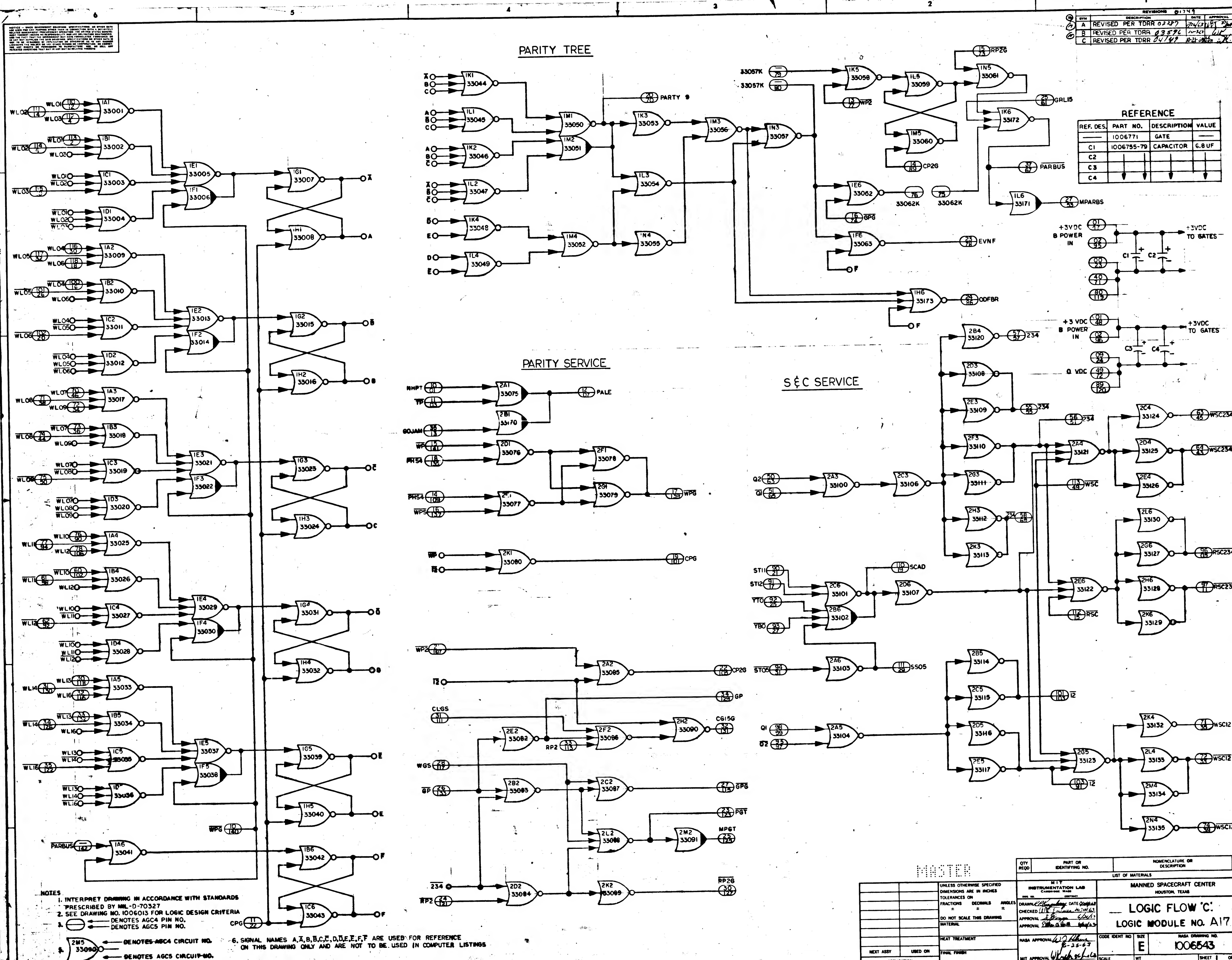
NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA
3. DENOTES AGC 4 RM NO.
4. DENOTES AGC 5 PIN NO.
5. DENOTES AGC 4 CIRCUIT NO.
6. DENOTES AGC 5 CIRCUIT NO.



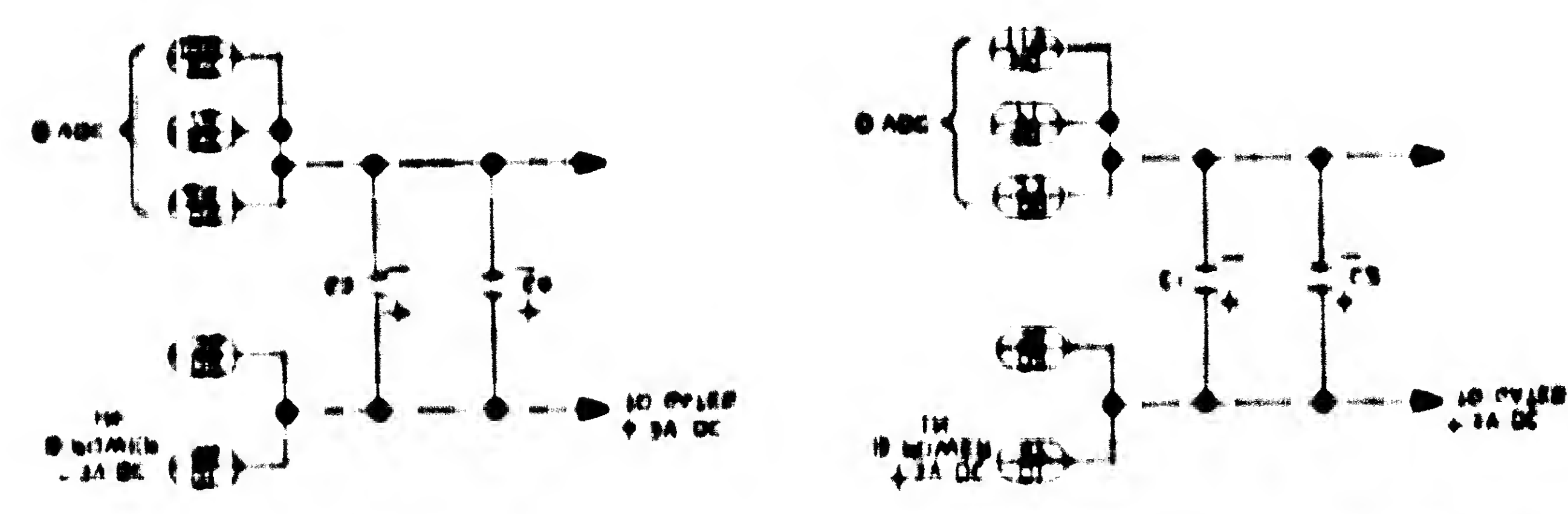
REF. DES.	PART NO	DESCRIPTION	VALUE
—	100677L	GATE	
C1	1006755-75	CAPACITOR	6.8UF
C2			
C3			
C4			

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIG NO.
LIST OF MATERIALS						
MANNED SPACECRAFT CENTER HOUSTON, TEXAS						
LOGIC FLOW D						
LOGIC MODULE NO. A27						
NABA DRAWING NO. 1006544						
SCALE: 1/8" = 1"						
SHEET 1 OF 1						

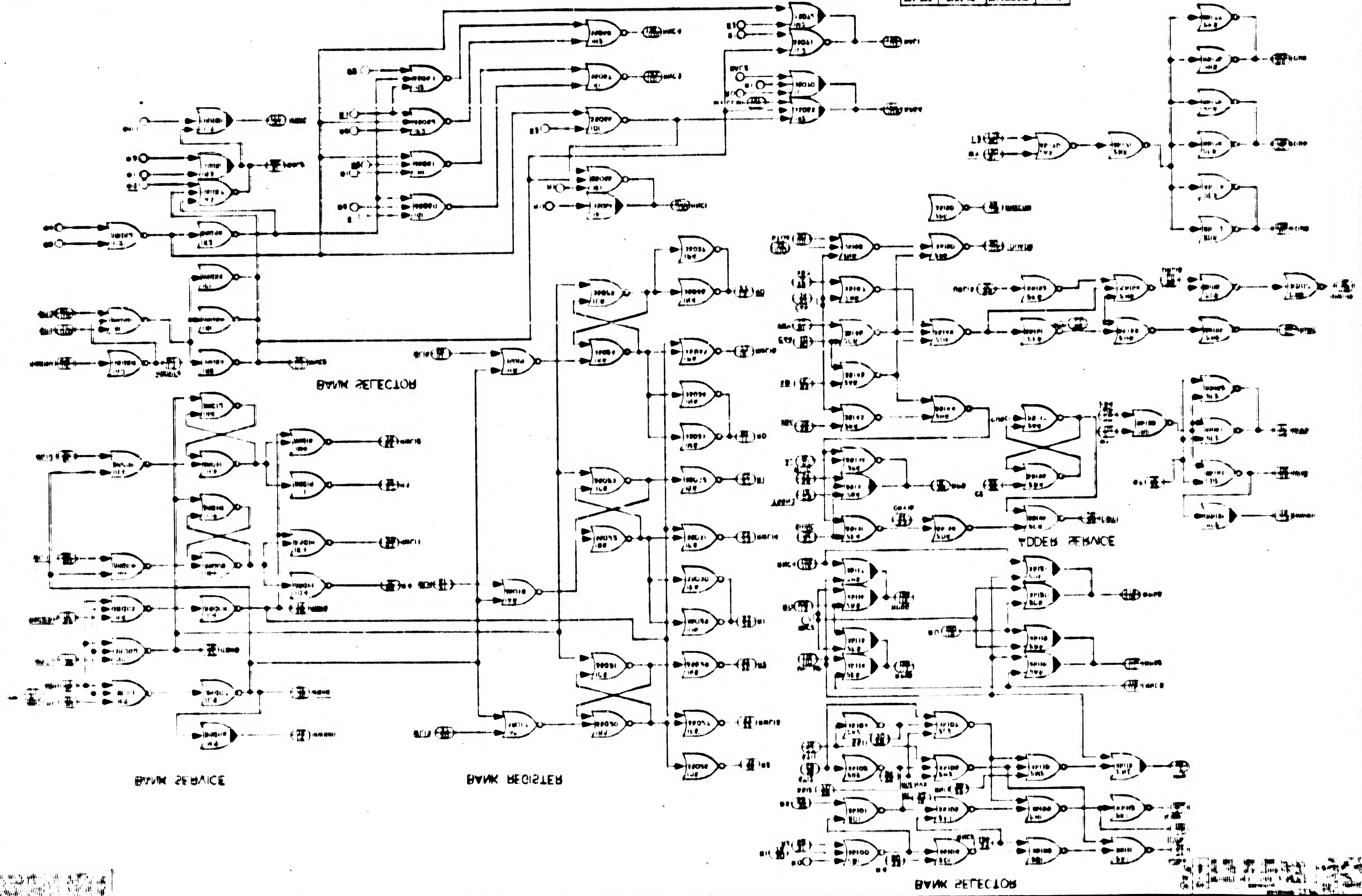


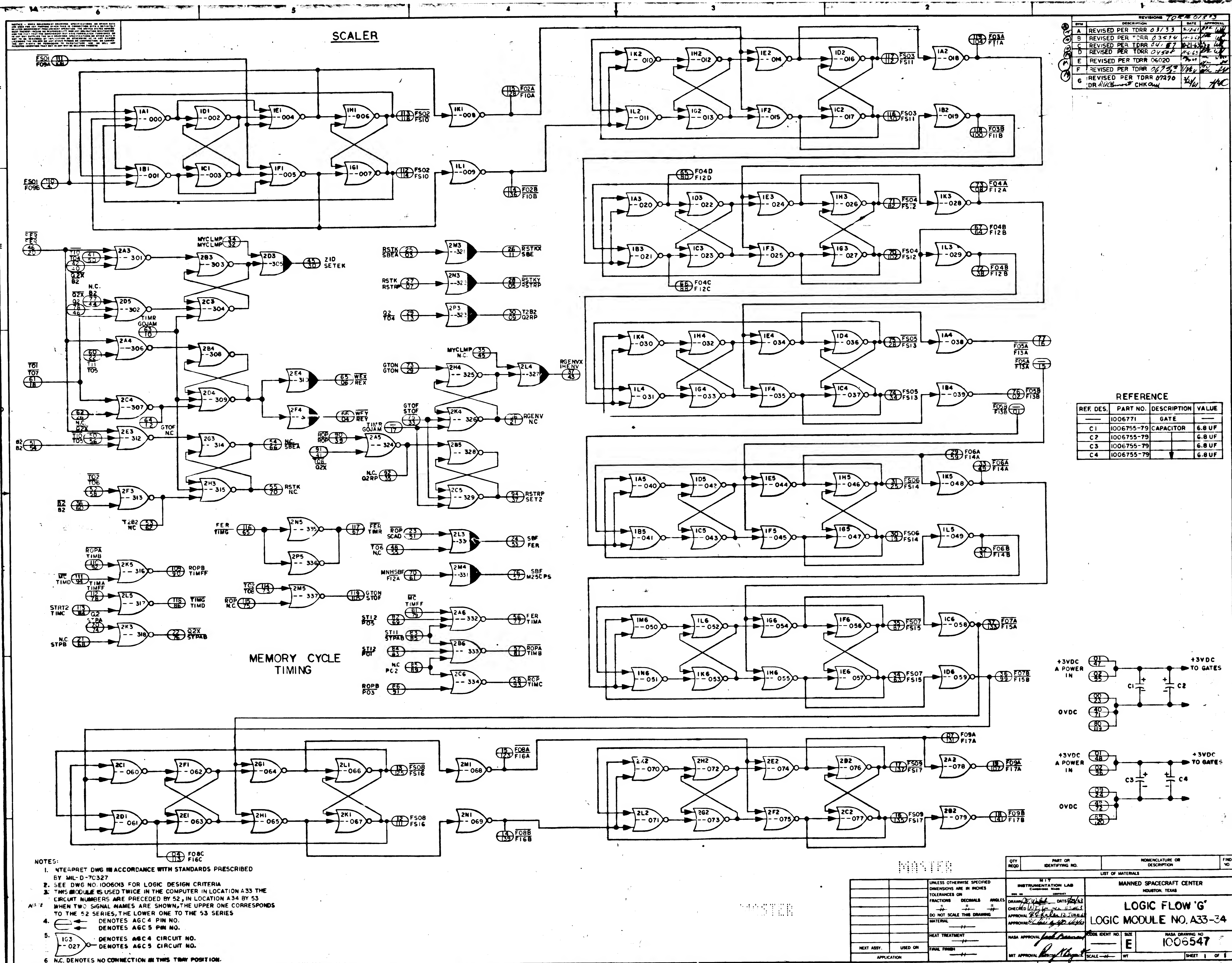


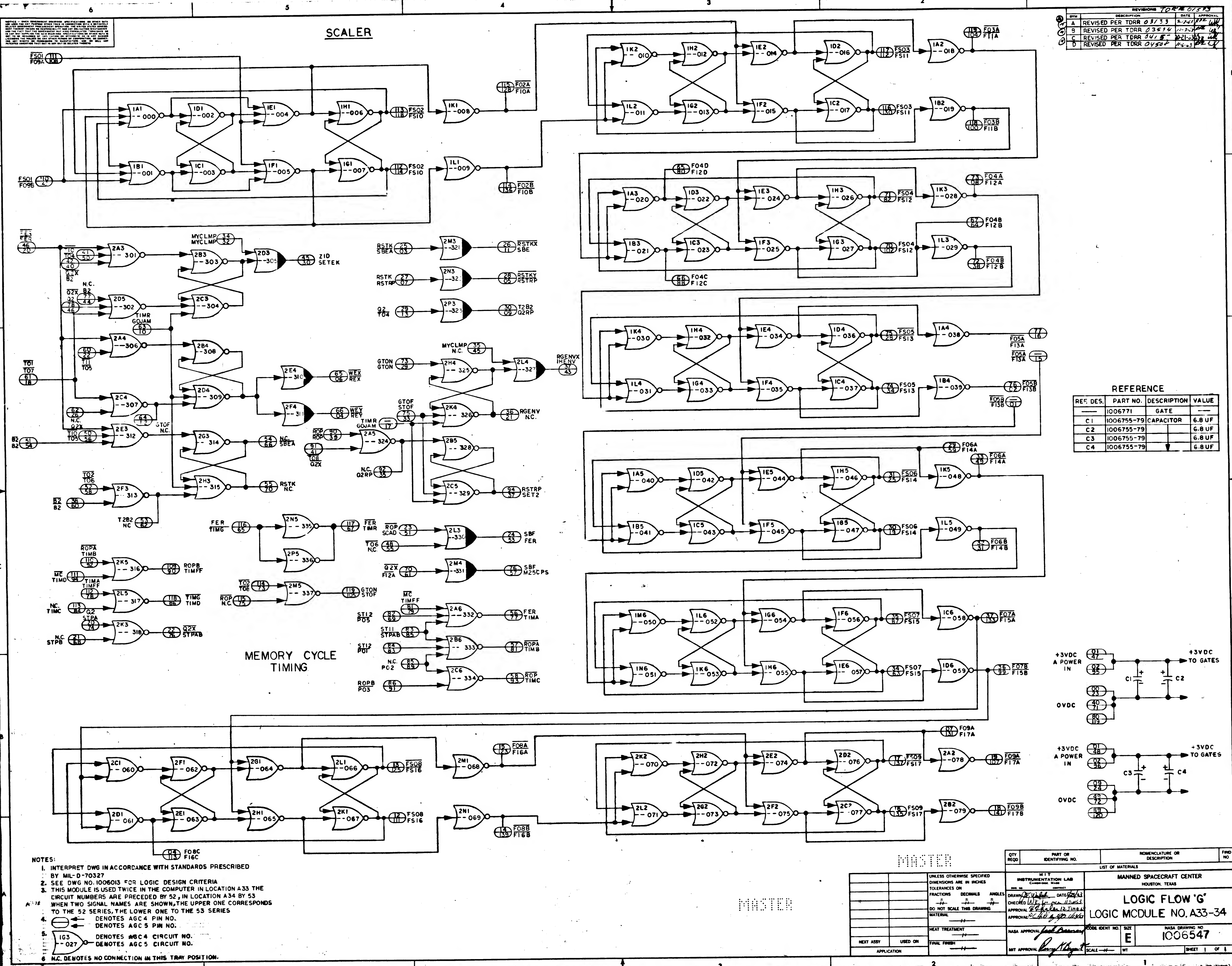
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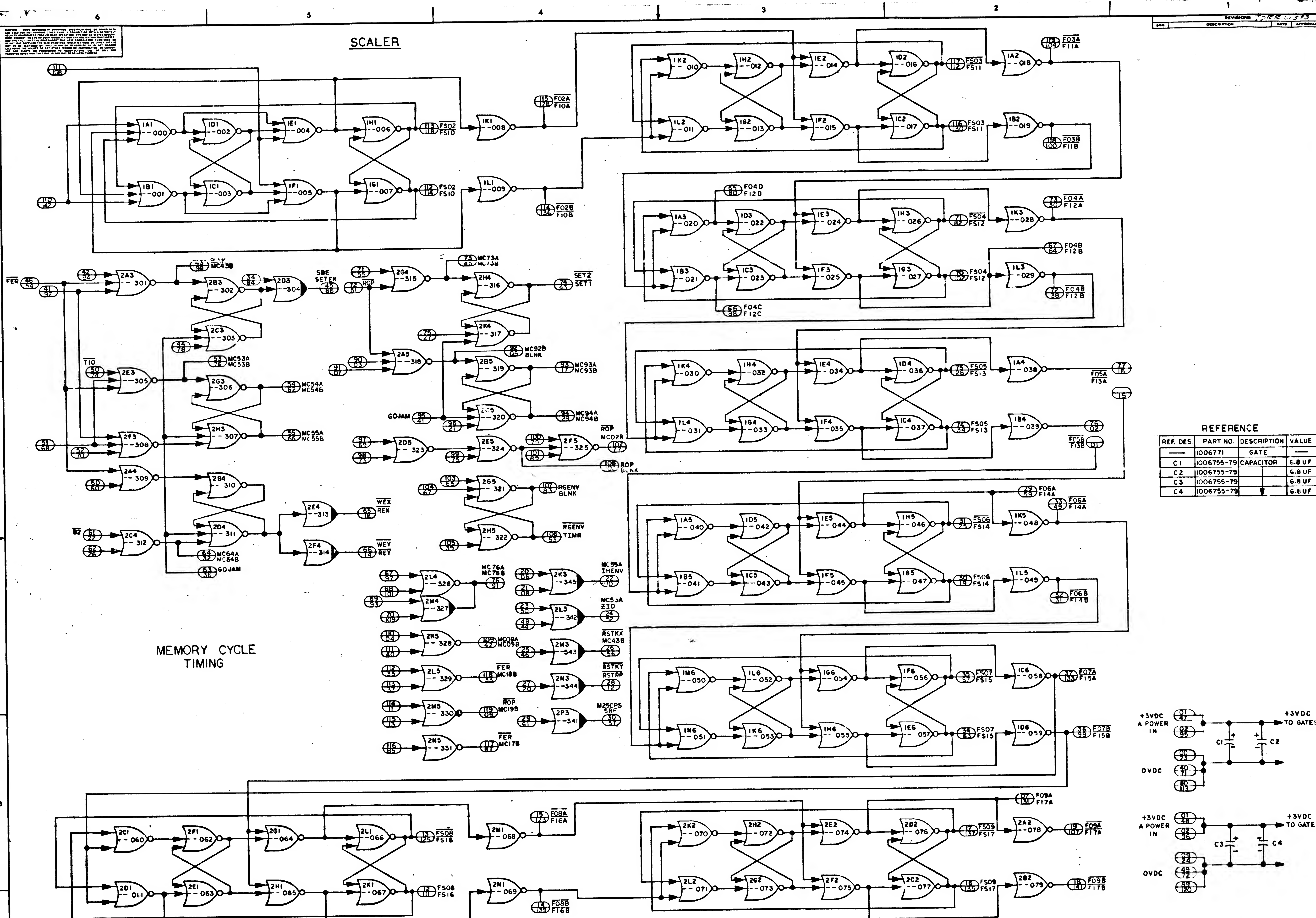


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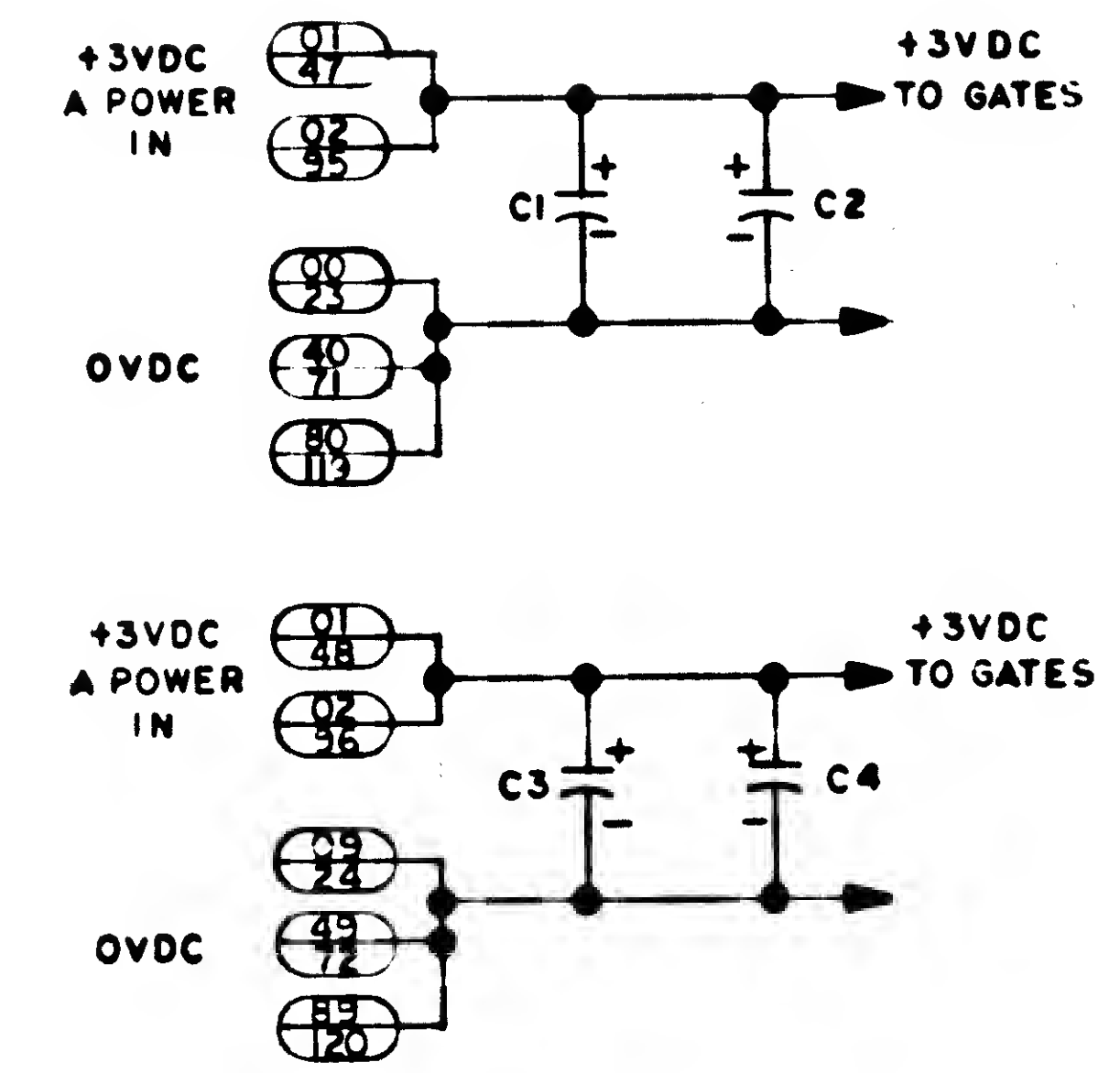






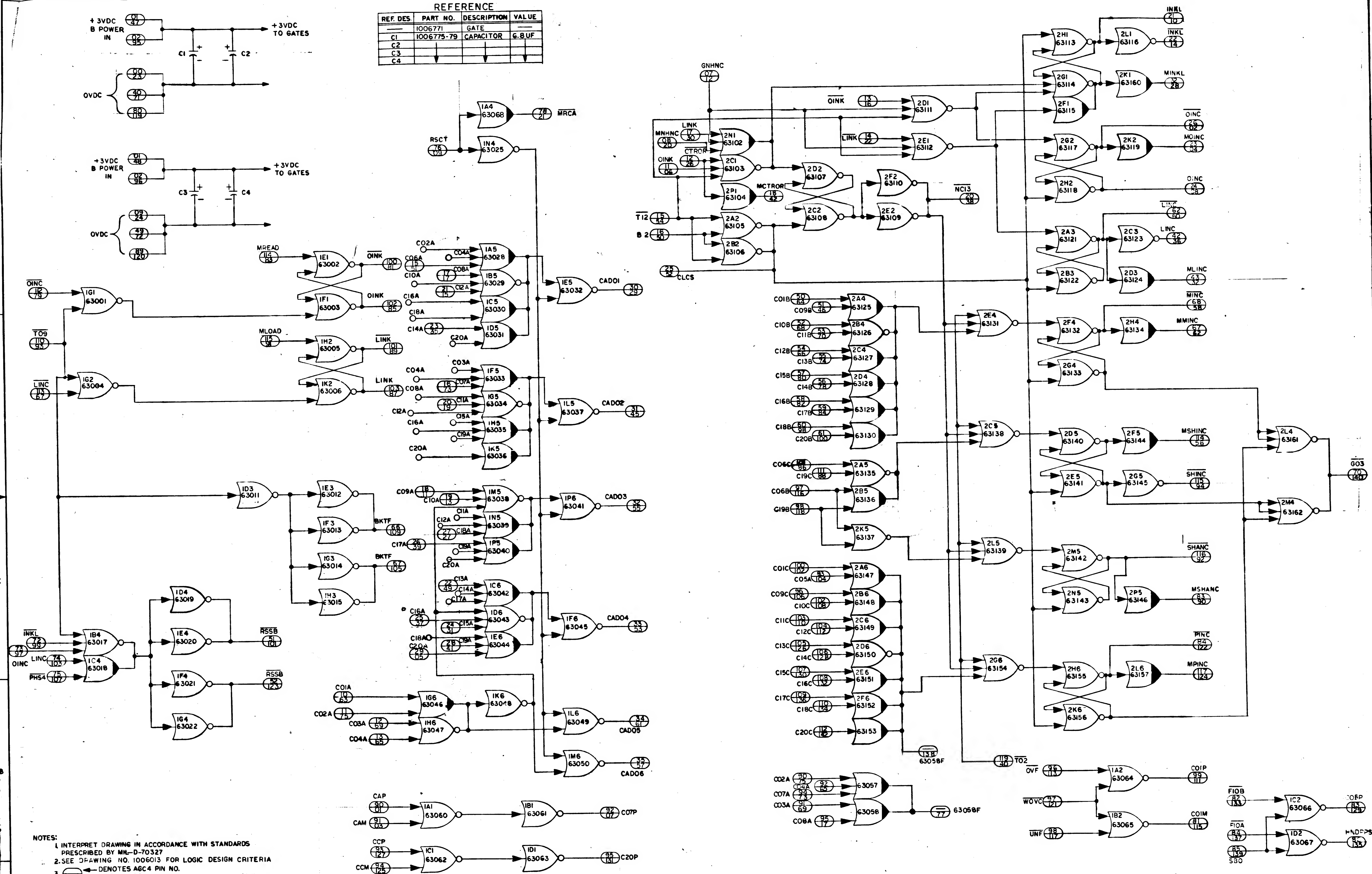
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C1	1006755-79	CAPACITOR	6.8 UF
C2	1006755-79	CAPACITOR	6.8 UF
C3	1006755-79	CAPACITOR	6.8 UF
C4	1006755-79	CAPACITOR	6.8 UF

- NOTES:
1. INTERPRET DWG IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. SEE DWG NO. 1006013 FOR LOGIC DESIGN CRITERIA
 3. THIS STICK IS USED TWICE IN THE COMPUTER IN LOCATION 1 THE CIRCUIT NUMBERS ARE PRECEDED BY 52, IN LOCATION 2 BY 53. WHEN TWO SIGNAL NAMES ARE SHOWN, THE UPPER ONE CORRESPONDS TO THE 52 SERIES, THE LOWER ONE TO THE 53 SERIES
 4. DENOTES AGC 4 PIN NO.
 5. DENOTES AGC 5 PIN NO.
 6. DENOTES AGC 4 CIRCUIT NO.
 7. DENOTES AGC 5 CIRCUIT NO.



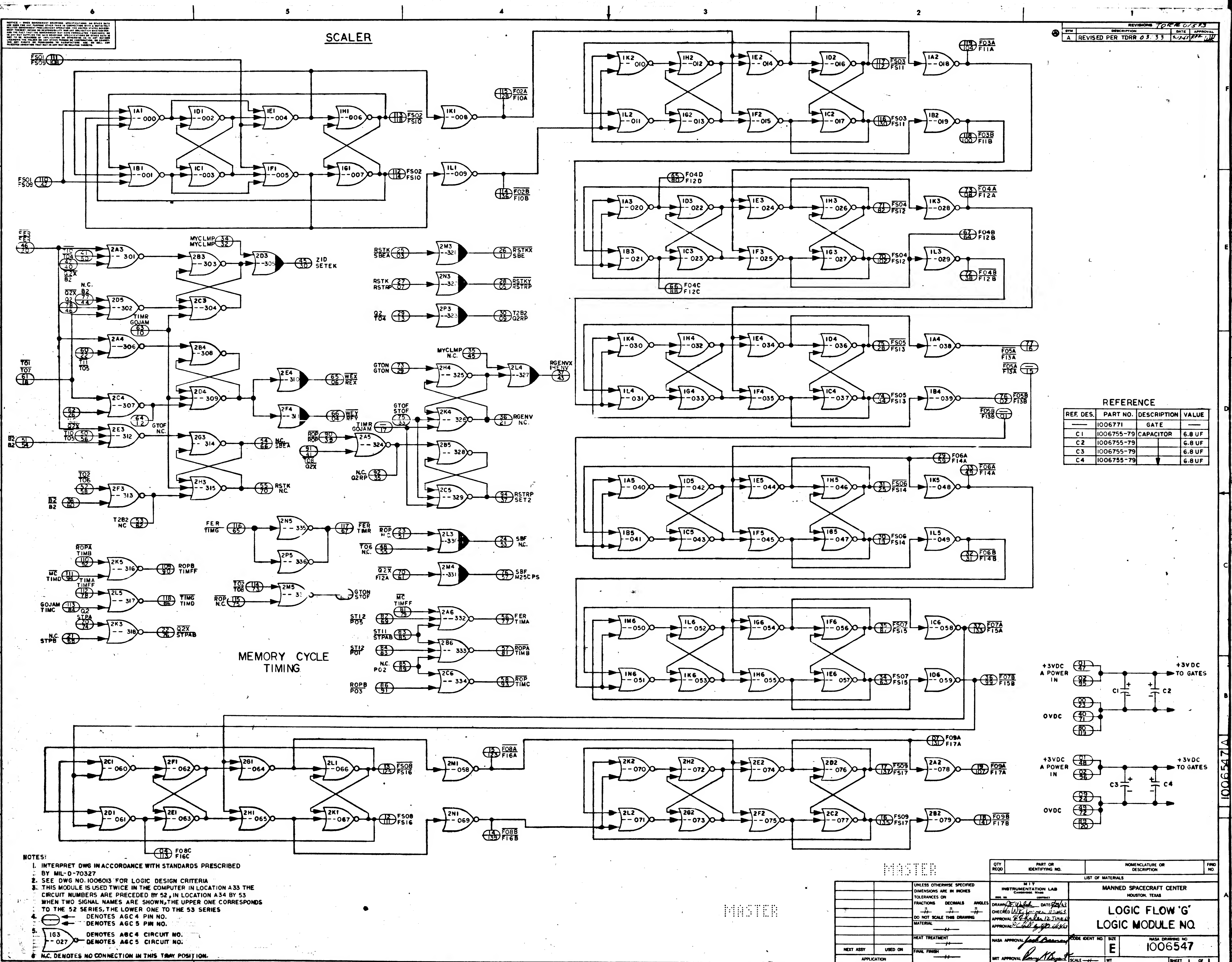
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FRD NO.
LIST OF MATERIALS			
M T F			
INSTRUMENTATION LAB			
HOUSTON, TEXAS			
LOGIC FLOW 'G'			
LOGIC MODULE NO.			
1006547			
E			
SHEET 1 OF 1			

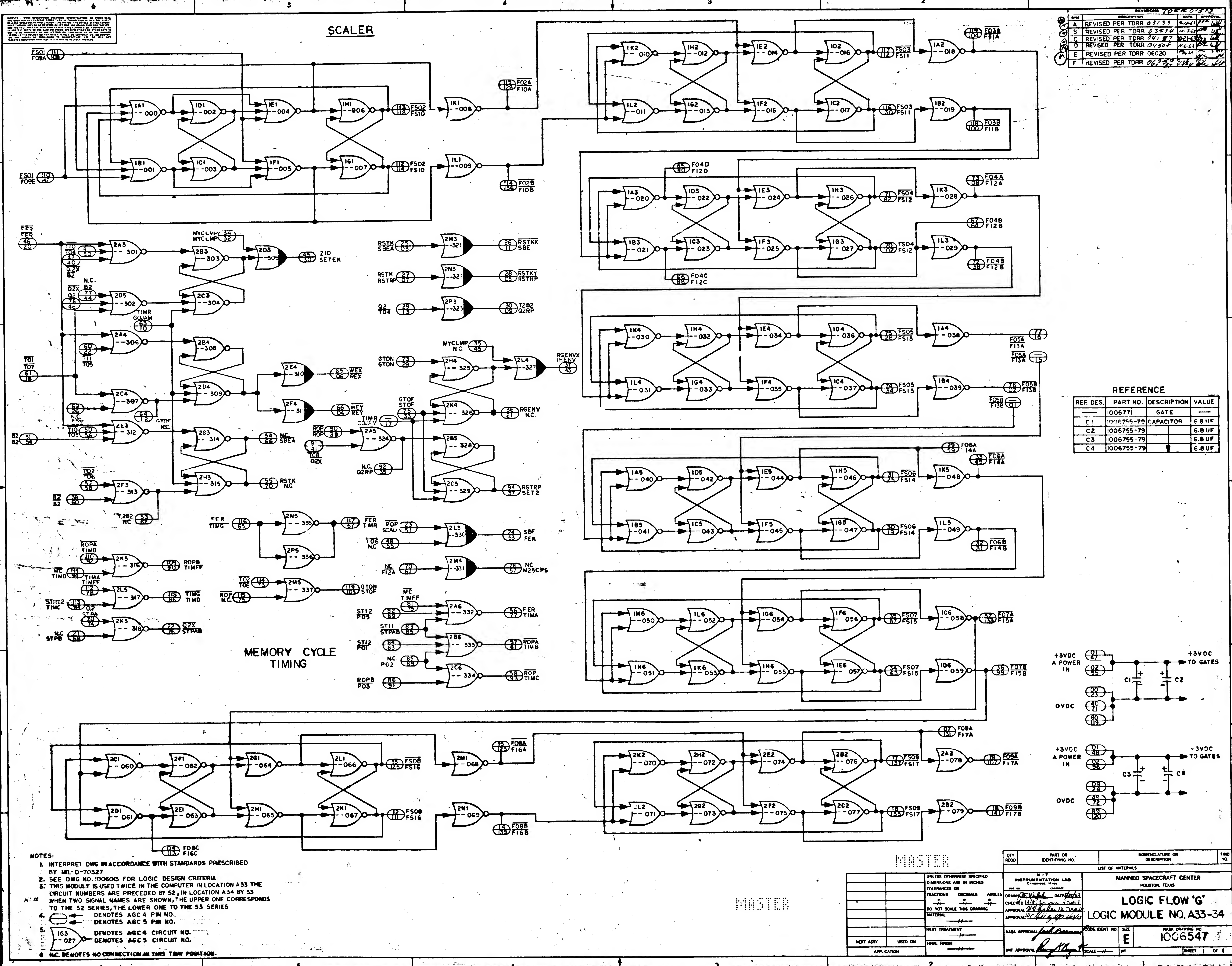
REFERENCE			
REF. DES.	PART NO.	DESCRIPTION	VALUE
C1	1006771	GATE	
C2	1006775-79	CAPACITOR	6.8 UF
C3			
C4			



NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA
3. DENOTES AGC4 PIN NO.
4. DENOTES AGC5 PIN NO.
5. DENOTES AGC4 CIRCUIT NO.
6. DENOTES AGC5 CIRCUIT NO.

MASTER				QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.			
								LIST OF MATERIALS					
<div>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL HEAT TREATMENT NEXT ASSY USED ON APPLICATION FINAL FINISH</div>				INSTRUMENTATION LAB CHAMBERLAIN HALL		MANNED SPACECRAFT CENTER HOUSTON, TEXAS							
				DATE 08		CONTACT		LOGIC FLOW "F" LOGIC MODULE NO. A-32					
				DRAWN BY <i>George J. Dyer</i>		DATE <i>2-25-63</i>							
				CHECKED									
				APPROVAL <i>W.P. Lawrence</i>		<i>2-25-63</i>							
				APPROVAL <i>John C. Hoff</i>		<i>2-25-63</i>							
				NASA APPROVAL <i>W.P. Lawrence</i>		CODE IDENT NO.		E		NASA DRAWING NO.		1006546	
				MIT APPROVAL <i>W.P. Lawrence</i>		SCALE		1/16"		SHEET		OF	



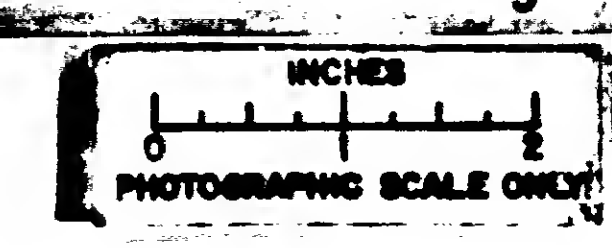


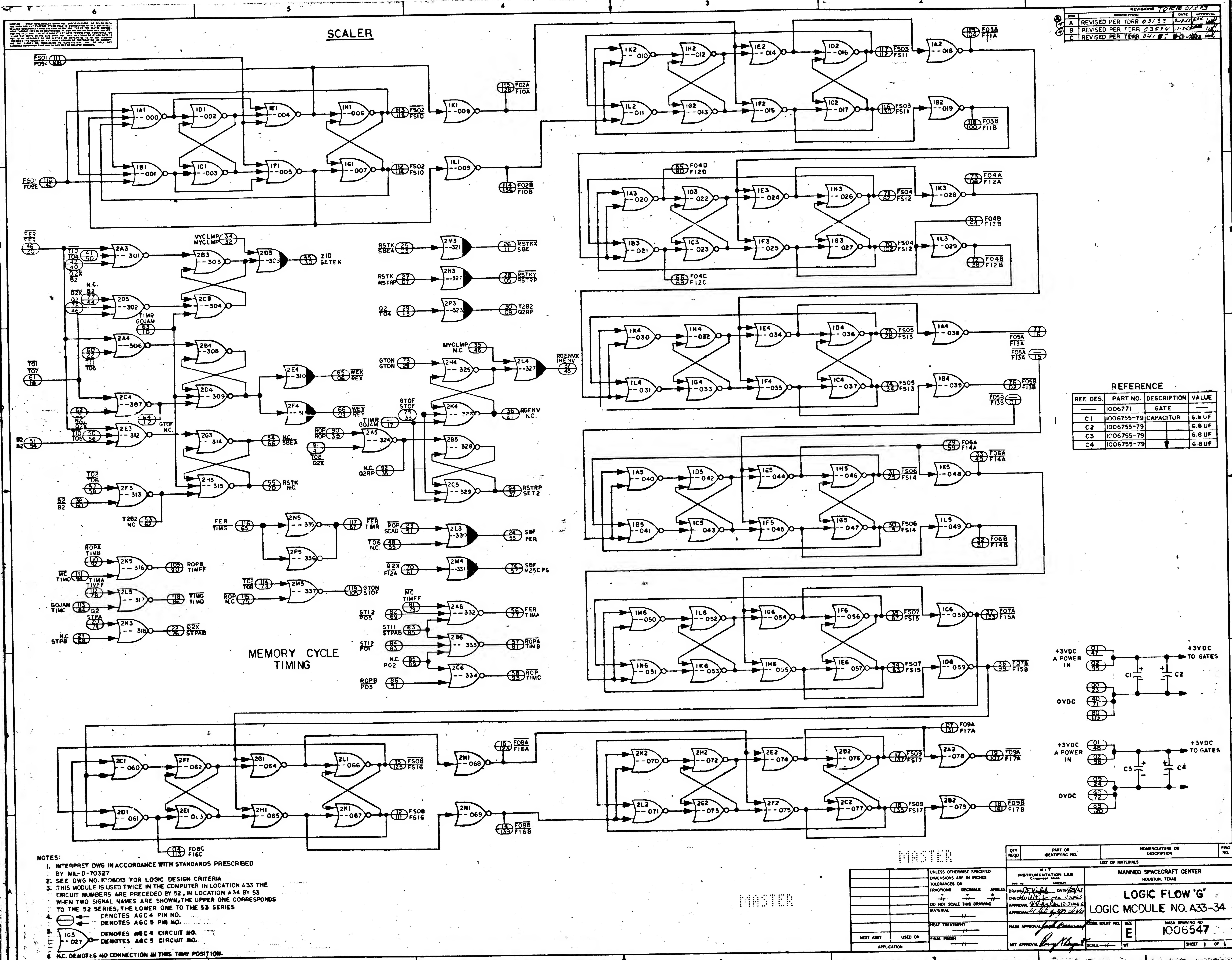
REV	DESCRIPTION	DATE	BY
A	REVISED PER TDRR 03/53	11/20/53	WJ
B	REVISED PER TDRR 03/54	11/20/53	WJ
C	REVISED PER TDRR 04/57	11/20/53	WJ
D	REVISED PER TDRR 04/58	11/20/53	WJ
E	REVISED PER TDRR 06/50	11/20/53	WJ
F	REVISED PER TDRR 06/52	11/20/53	WJ

REF. DES.	PART NO.	DESCRIPTION	VALUE
	1006771	GATE	
C1	1006755-79	CAPACITOR	6.8 UF
C2	1006755-79		6.8 UF
C3	1006755-79		6.8 UF
C4	1006755-79		6.8 UF

- NOTES:
1. INTERPRET DWG IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. SEE DWG NO. 1006043 FOR LOGIC DESIGN CRITERIA
 3. THIS MODULE IS USED TWICE IN THE COMPUTER IN LOCATION A33. THE CIRCUIT NUMBERS ARE PRECEDED BY 52, IN LOCATION A34 BY 53 WHEN TWO SIGNAL NAMES ARE SHOWN, THE UPPER ONE CORRESPONDS TO THE 52 SERIES, THE LOWER ONE TO THE 53 SERIES
 4. DENOTES AGC 4 PIN NO.
 5. DENOTES AGC 5 PIN NO.
 6. DENOTES AGC 4 CIRCUIT NO.
 7. DENOTES AGC 5 CIRCUIT NO.
 8. N.C. DENOTES NO CONNECTION IN THIS TIMING POSITION.

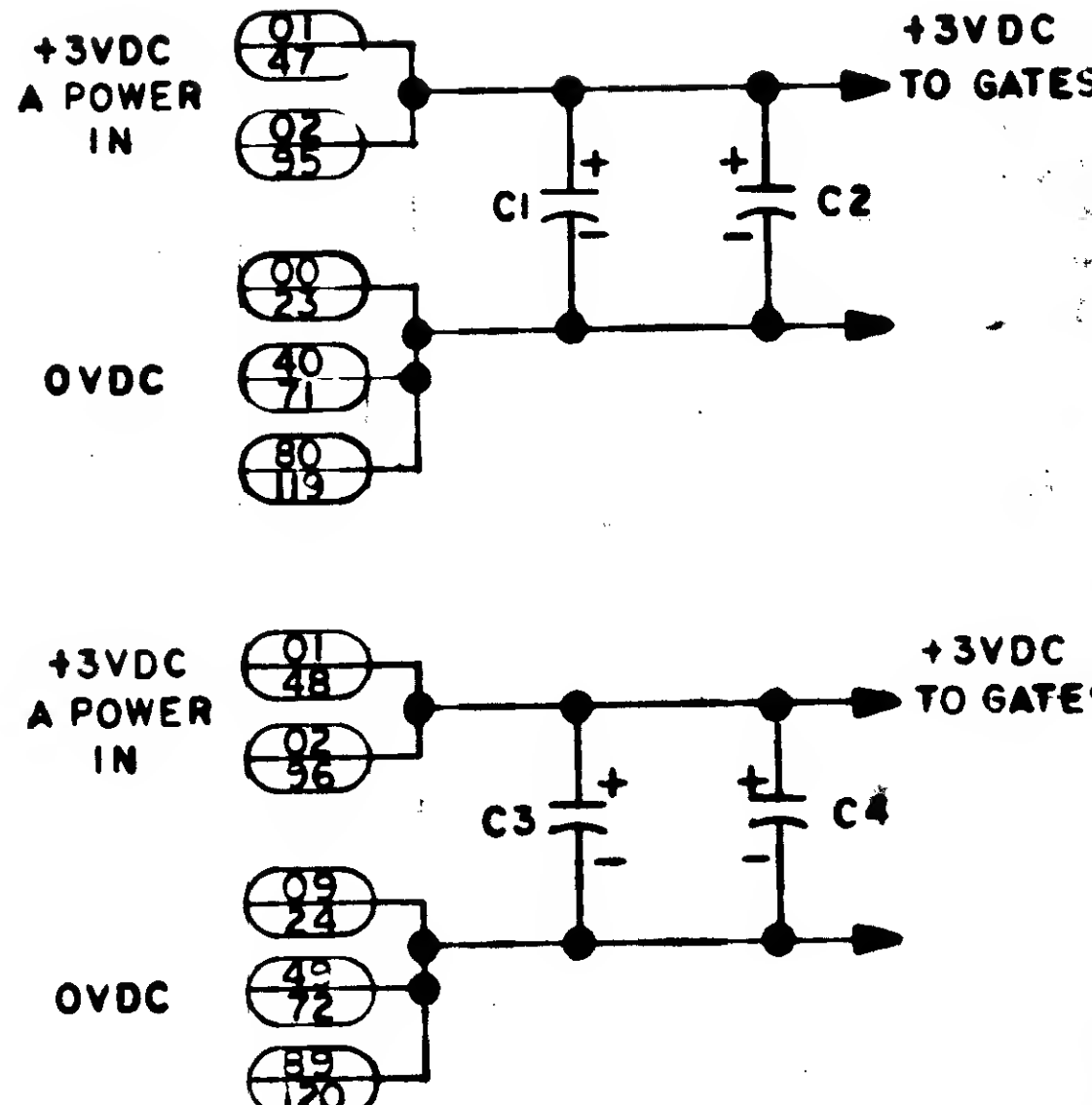
QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		PRD NO.	
LIST OF MATERIALS							
INSTRUMENTATION LAB				MANNED SPACECRAFT CENTER			
HOUSTON, TEXAS				HOUSTON, TEXAS			
LOGIC FLOW 'G'				LOGIC MODULE NO. A33-34			
NASA APPROVAL				NASA DRAWING NO. 1006547			
MIT APPROVAL				SCALE			





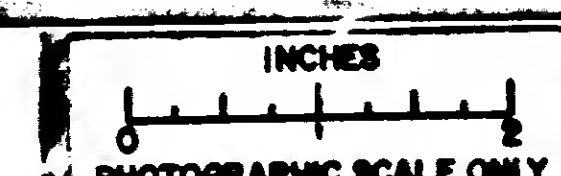
REV	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 03/53	2/2/53	W. J. H.
B	REVISED PER TDRR 03/54	11/2/54	W. J. H.
C	REVISED PER TDRR 04/57	10/2/57	W. J. H.

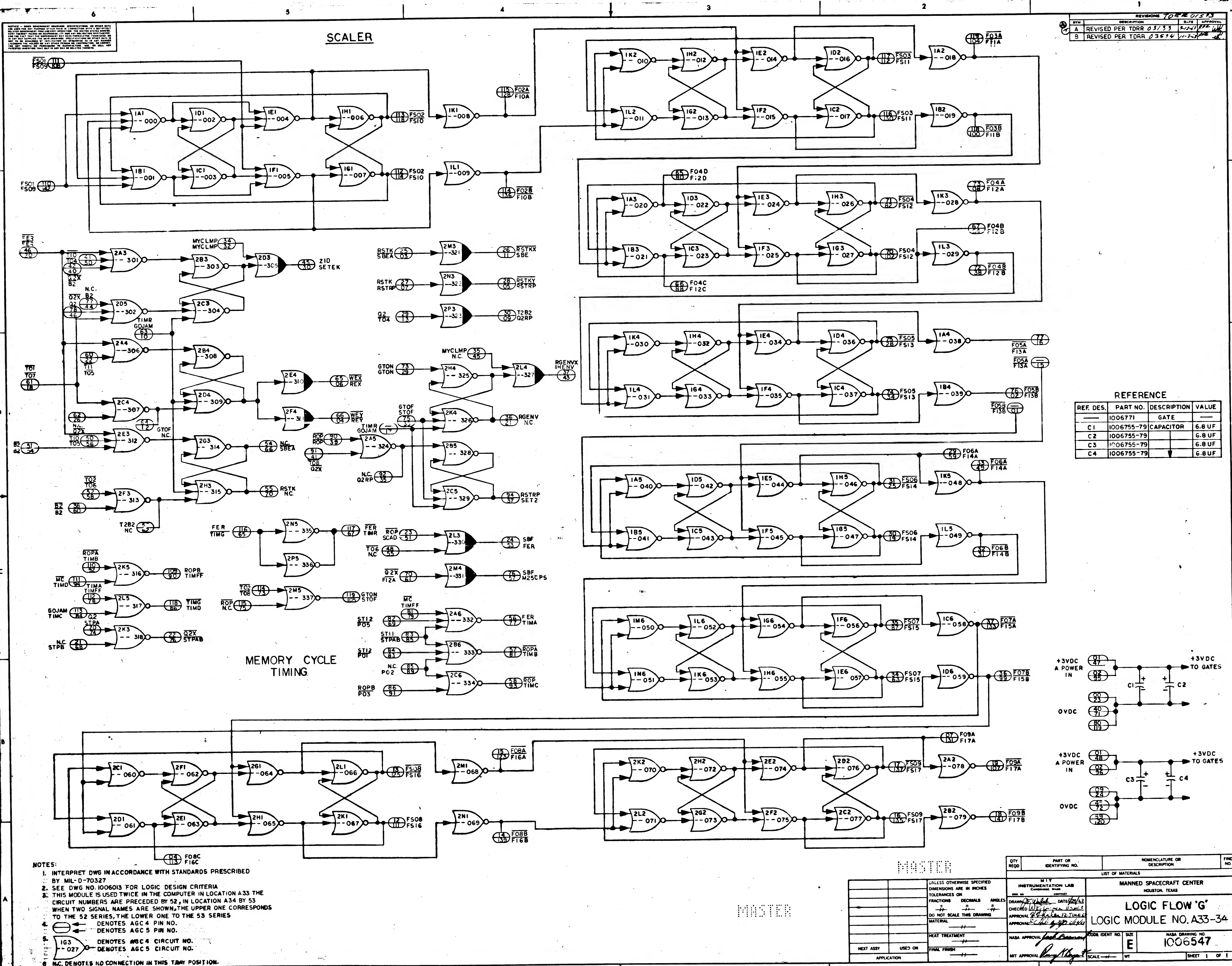
REF. DES.	PART NO.	DESCRIPTION	VALUE
—	1006771	GATE	—
C1	1006755-79	CAPACITOR	6.8 UF
C2	1006755-79		6.8 UF
C3	1006755-79		6.8 UF
C4	1006755-79		6.8 UF



- NOTES:
- INTERPRET DWG IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 - SEE DWG NO. 1006013 FOR LOGIC DESIGN CRITERIA
 - THIS MODULE IS USED TWICE IN THE COMPUTER IN LOCATION A33 THE CIRCUIT NUMBERS ARE PRECEDED BY 52, IN LOCATION A34 BY 53 WHEN TWO SIGNAL NAMES ARE SHOWN, THE UPPER ONE CORRESPONDS TO THE 52 SERIES, THE LOWER ONE TO THE 53 SERIES
 - ⊖ DENOTES AGC 4 PIN NO.
⊕ DENOTES AGC 5 PIN NO.
 - IG3 DENOTES AGC 4 CIRCUIT NO.
-027 DENOTES AGC 5 CIRCUIT NO.
 - N.C. DENOTES NO CONNECTION IN THIS TRAY POSITION.

MASTER		LIST OF MATERIALS	
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	
INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER	
DATE: 11/2/54		HOUSTON, TEXAS	
CHECKED: W. J. H.		LOGIC FLOW 'G'	
APPROVAL: W. J. H.		LOGIC MODULE NO. A33-34	
NASA APPROVAL: W. J. H.		NASA DRAWING NO. 1006547	
MT APPROVAL: W. J. H.		SCALE: 1/1	





REV	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 03/33	11/27/77	WJH
B	REVISED PER TDRR 03/54	11/27/77	WJH

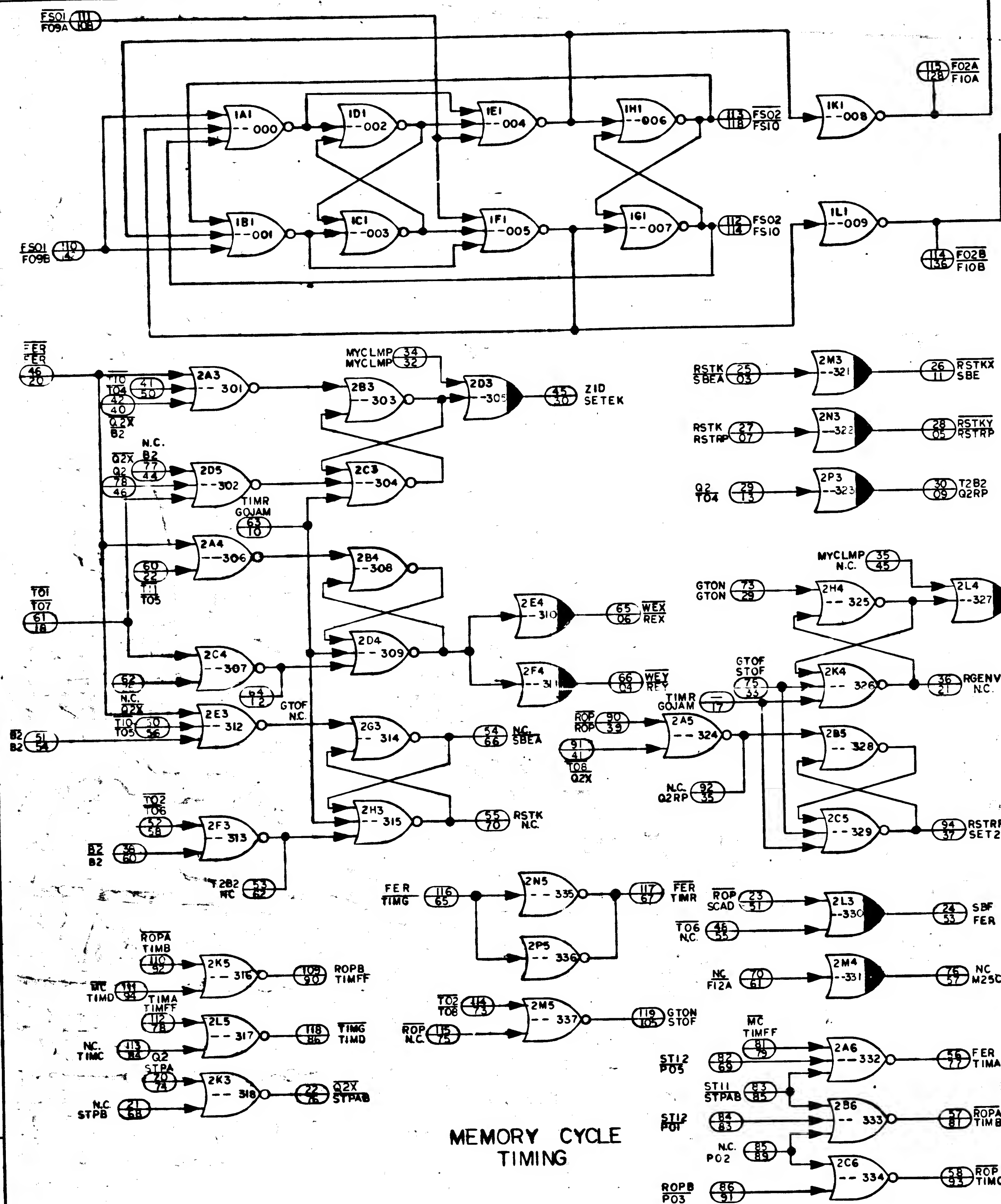
REF. DES.	PART NO.	DESCRIPTION	VALUE
C1	1006775-79	CAPACITOR	6.8 UF
C2	1006755-79		6.8 UF
C3	1006755-79		6.8 UF
C4	1006755-79		6.8 UF

- NOTES:
- INTERPRET DWS IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 - SEE DWG NO. 1006013 FOR LOGIC DESIGN CRITERIA
 - THIS MODULE IS USED TWICE IN THE COMPUTER IN LOCATION A33 THE CIRCUIT NUMBERS ARE PRECEDED BY 52, IN LOCATION A34 BY 53 WHEN TWO SIGNAL NAMES ARE SHOWN, THE UPPER ONE CORRESPONDS TO THE 52 SERIES, THE LOWER ONE TO THE 53 SERIES
 - 1G3 DENOTES AGC 4 PIN NO.
1G2 DENOTES AGC 5 PIN NO.
 - 1G3 DENOTES AGC 4 CIRCUIT NO.
1G2 DENOTES AGC 5 CIRCUIT NO.
 - N.C. DENOTES NO CONNECTION IN THIS TINY POSITION.

MASTER		MASTER	
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	
LIST OF MATERIALS		FIND NO.	
INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER	
HOUSTON, TEXAS		HOUSTON, TEXAS	
LOGIC FLOW 'G'		LOGIC MODULE NO. A33-34	
1006547		1006547	
E		E	
SCALE		SCALE	
SHEET 1 OF 1		SHEET 1 OF 1	

NOTES: 1. INTERPRET DWG IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. 2. SEE DWG NO. 1006003 FOR LOGIC DESIGN CRITERIA. 3. THIS MODULE IS USED TWICE IN THE COMPUTER IN LOCATION A33 THE CIRCUIT NUMBERS ARE PRECEDED BY 52, IN LOCATION A34 BY 53 WHEN TWO SIGNAL NAMES ARE SHOWN, THE UPPER ONE CORRESPONDS TO THE 52 SERIES, THE LOWER ONE TO THE 53 SERIES. 4. DENOTES AGC 4 PIN NO. DENOTES AGC 5 PIN NO. 5. DENOTES AGC 4 CIRCUIT NO. DENOTES AGC 5 CIRCUIT NO. 6. N.C. DENOTES NO CONNECTION IN THIS TYPED POSITION.

SCALER

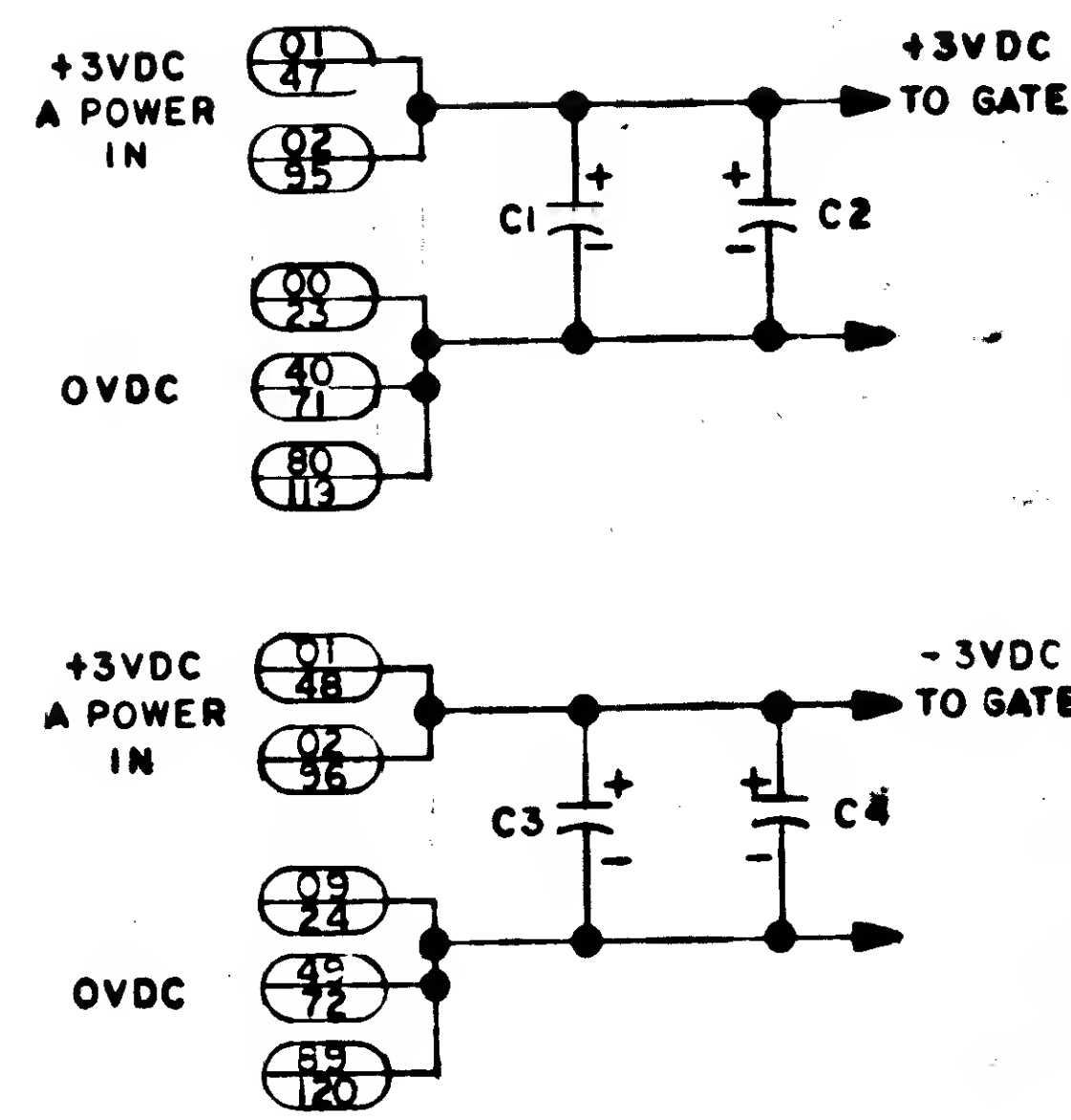


MEMORY CYCLE TIMING

1. INTERPRET DWG IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. SEE DWG NO. 1006003 FOR LOGIC DESIGN CRITERIA.
3. THIS MODULE IS USED TWICE IN THE COMPUTER IN LOCATION A33 THE CIRCUIT NUMBERS ARE PRECEDED BY 52, IN LOCATION A34 BY 53 WHEN TWO SIGNAL NAMES ARE SHOWN, THE UPPER ONE CORRESPONDS TO THE 52 SERIES, THE LOWER ONE TO THE 53 SERIES.
4. DENOTES AGC 4 PIN NO. DENOTES AGC 5 PIN NO.
5. DENOTES AGC 4 CIRCUIT NO. DENOTES AGC 5 CIRCUIT NO.
6. N.C. DENOTES NO CONNECTION IN THIS TYPED POSITION.

REV	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 03133	1-74	WJ
B	REVISED PER TDRR 03874	1-74	WJ
C	REVISED PER TDRR 04187	2-74	WJ
D	REVISED PER TDRR 04504	2-74	WJ
E	REVISED PER TDRR 06020	1-75	WJ

REF. DES.	PART NO.	DESCRIPTION	VALUE
C1	1006771	CAPACITOR	6.8 UF
C2	1006755-73		6.8 UF
C3	1006755-79		6.8 UF
C4	1006755-79		6.8 UF



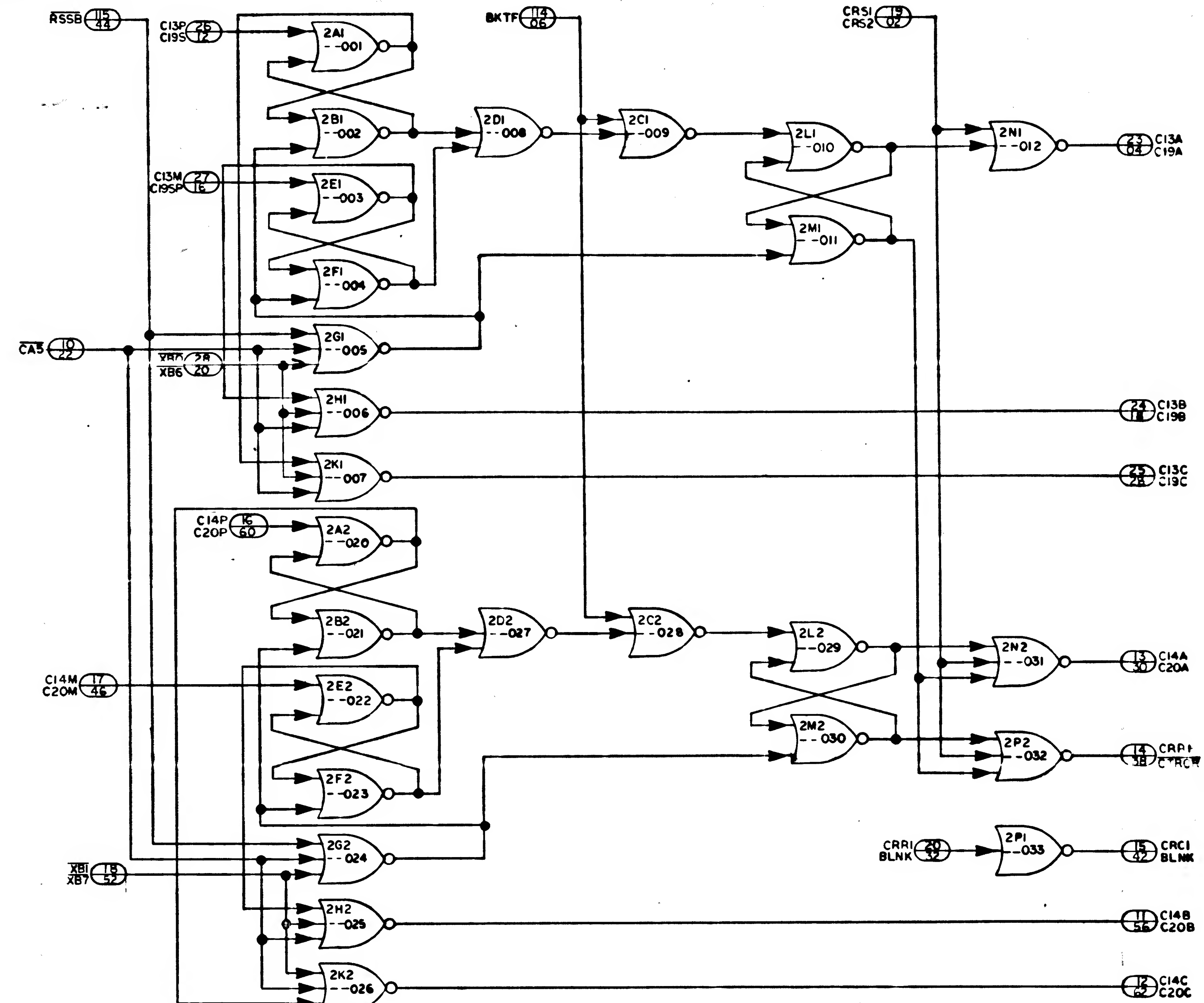
MASTER

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIG. NO.
LIST OF MATERIALS						
INSTRUMENTATION LAB				MANNED SPACECRAFT CENTER		
DRAWN BY: [Signature]				CHECKED BY: [Signature]		
DATE: 12/12/73				DATE: 12/12/73		
APPROVAL: [Signature]				APPROVAL: [Signature]		
NASA APPROVAL: [Signature]				NASA APPROVAL: [Signature]		
MIT APPROVAL: [Signature]				MIT APPROVAL: [Signature]		
NEXT ASSY				USED ON		FINAL FINISH
APPLICATION				SCALE		1

MASTER

LOGIC FLOW 'G'
LOGIC MODULE NO. A33-34
NADA DRAWING NO. 1006547
E

REVISIONS TORR 01572			
SYM	DESCRIPTION	DATE	APPROVAL



		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
		TOLERANCES ON
		FRACTIONS DECIMALS INCHES
		± ± ±
		DO NOT SCALE THIS DRAWING
		MATERIAL
		HEAT TREATMENT
NEXT ASSY	USED ON	FINAL FINISH
APPLICATION		

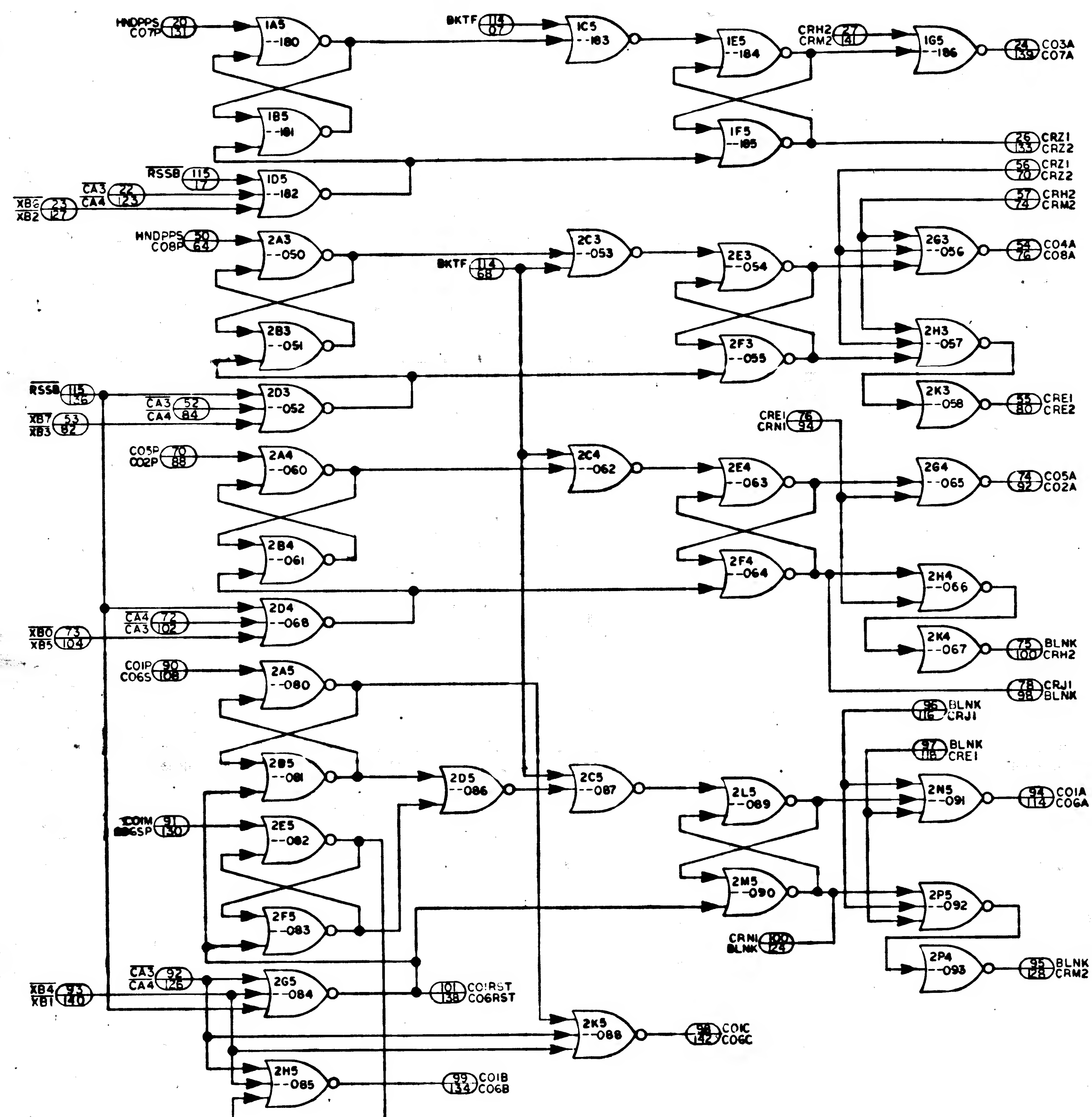
QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION		FRG NO
LIST OF MATERIALS				
M I T INSTRUMENTATION LAB CHAMBERS ROAD		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
ISS NO	CONTRACT			
DRAWN <i>ELK</i>	DATE <i>12-21-62</i>	LOGIC FLOW 'H' LOGIC MODULE NO.		
CHECKED <i>W. J. Walker</i>	BY <i>W. J. Walker</i>			
APPROVAL <i>W. J. Walker</i>	DATE <i>1-16-63</i>			
APPROVAL <i>W. J. Walker</i>	DATE <i>1-16-63</i>			
NASA APPROVAL <i>John Brown</i>	CODE IDENT NO	SIZE	NASA DRAWING NO	
		E	1005548	
MIT APPROVAL <i>W. J. Walker</i>	SCALE	WT	SHEET 2 OF 2	

INCHES

0 1 2

PHOTOGRAPHIC SCALE ONLY

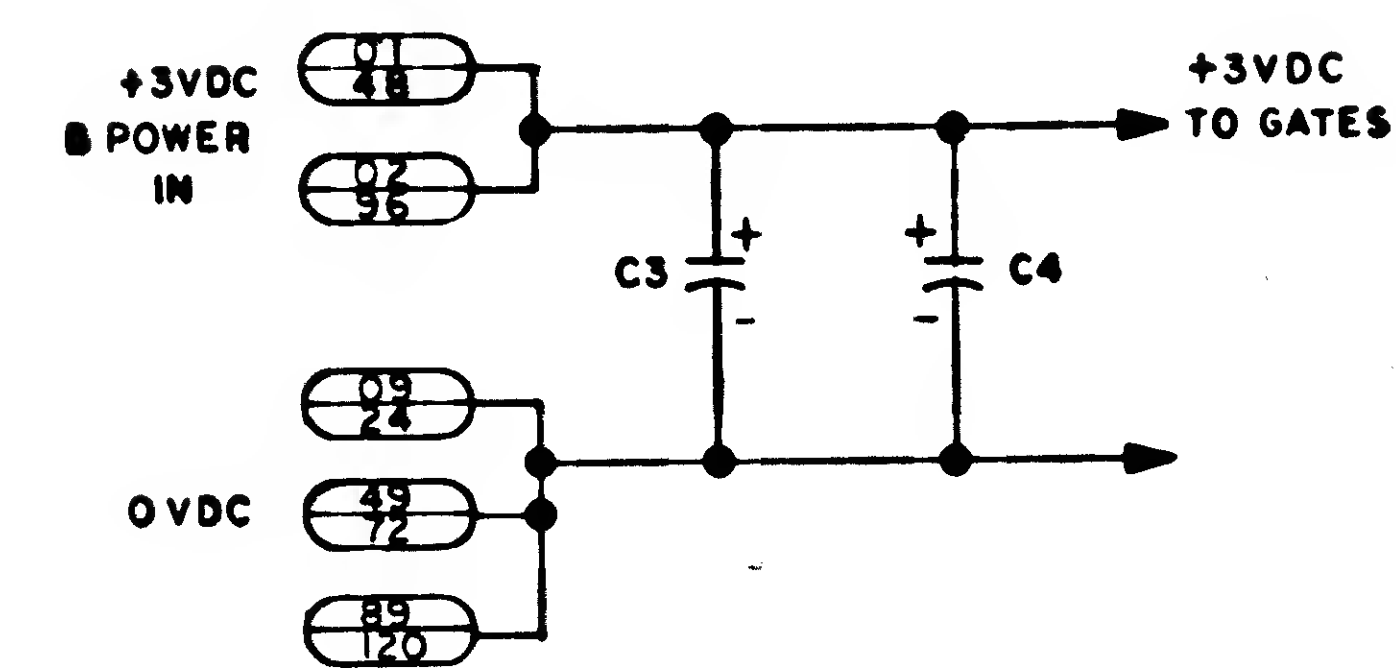
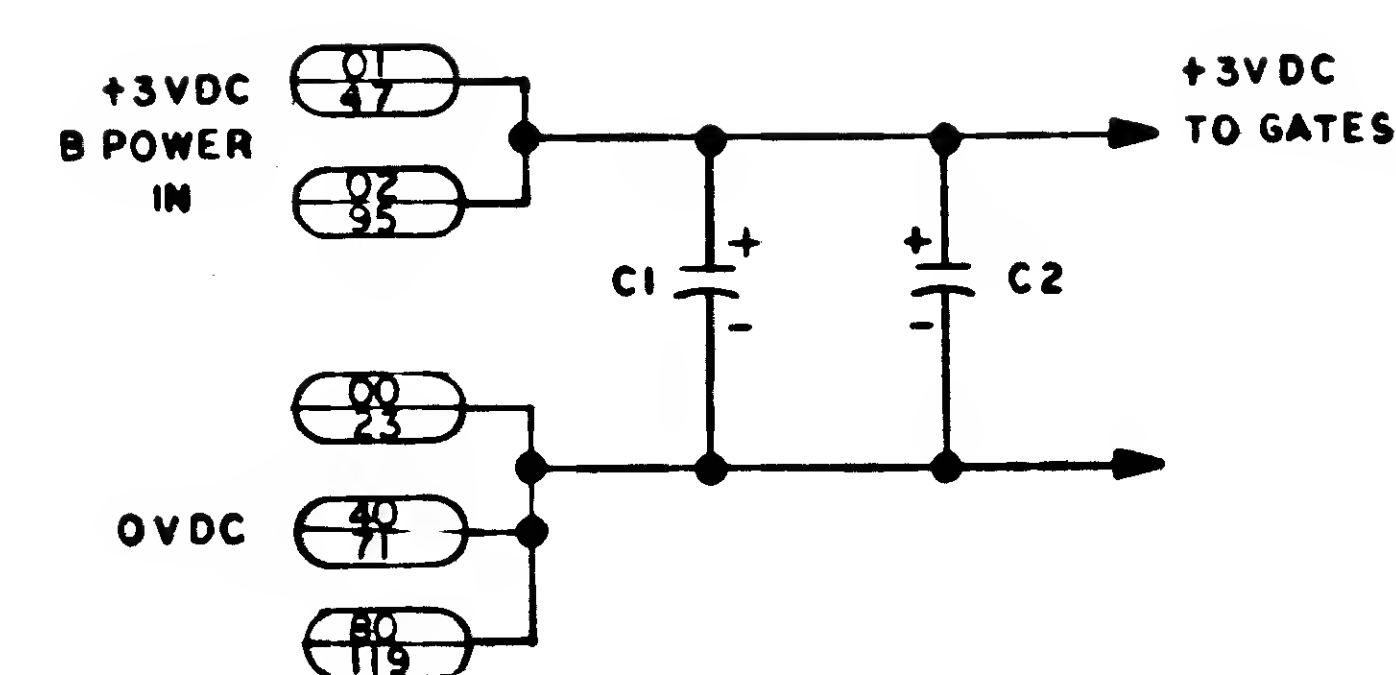
COUNTER INCREMENT PRIORITY



- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
 2. THIS STICK IS USED TWICE IN THE COMPUTER. IN LOCATION 1 THE CIRCUIT NUMBERS ARE PRECEDED BY 58, IN LOCATION 2 BY 59. WHEN TWO SIGNALS NAMES ARE SHOWN, THE UPPER ONE CORRESPONDS TO THE 50000 SERIES, THE LOWER ONE TO THE 59000 SERIES.
 3. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA.
 4. DENOTES AGC4 PIN NO.
 DENOTES AGC5 PIN NO.
 5. DENOTES AGC4 CIRCUIT NO.
 DENOTES AGC5 CIRCUIT NO.

REFERENCE

REF. DES.	PART NO.	DESCRIPTION	VALUE
	1006771	GATE	
C1	1006755-79	CAPACITOR	6.8 UF
C2	1006755-79		6.8 UF
C3	1006755-79		6.8 UF
C4	1006755-79		6.8 UF

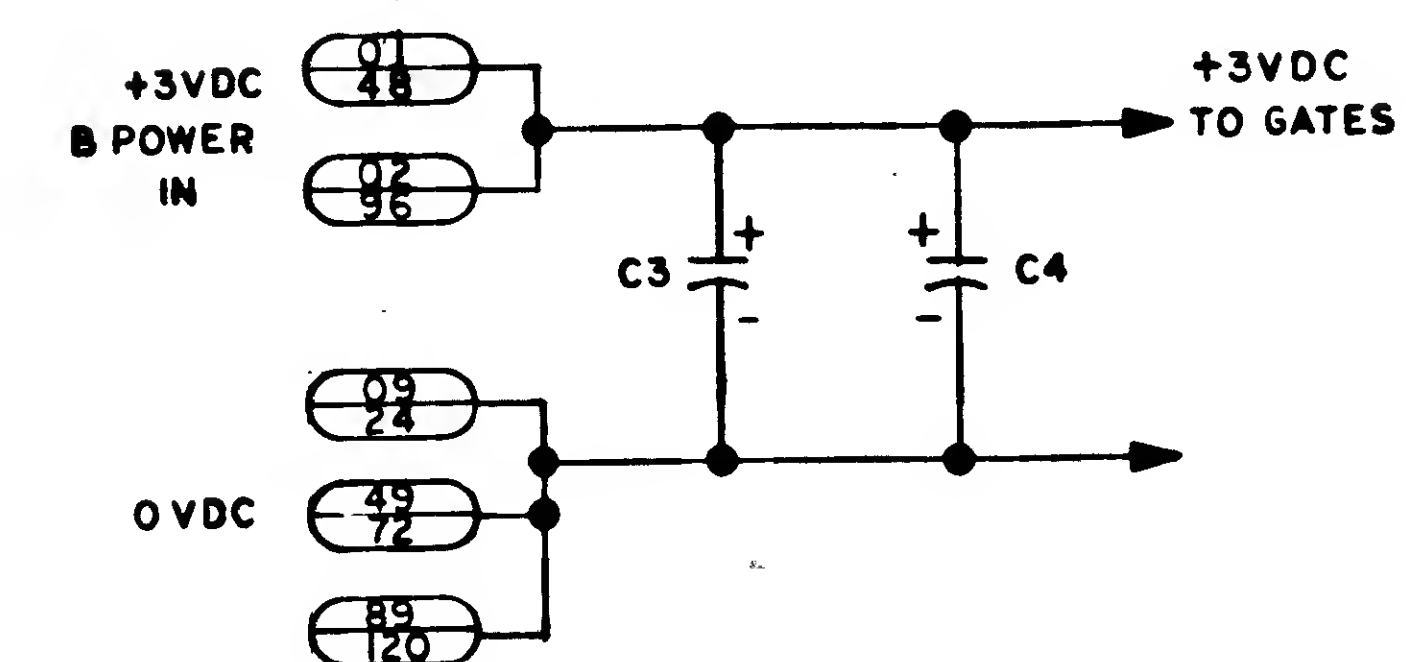
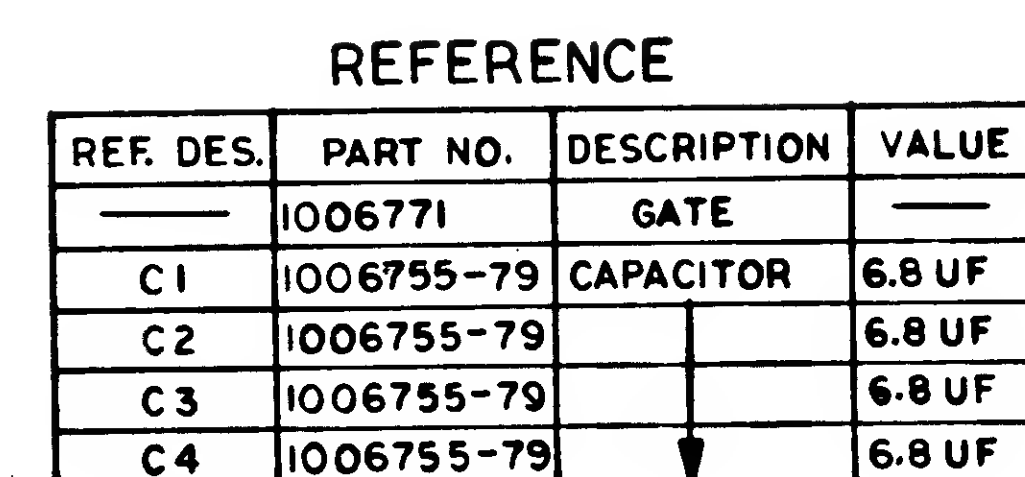


MASTER

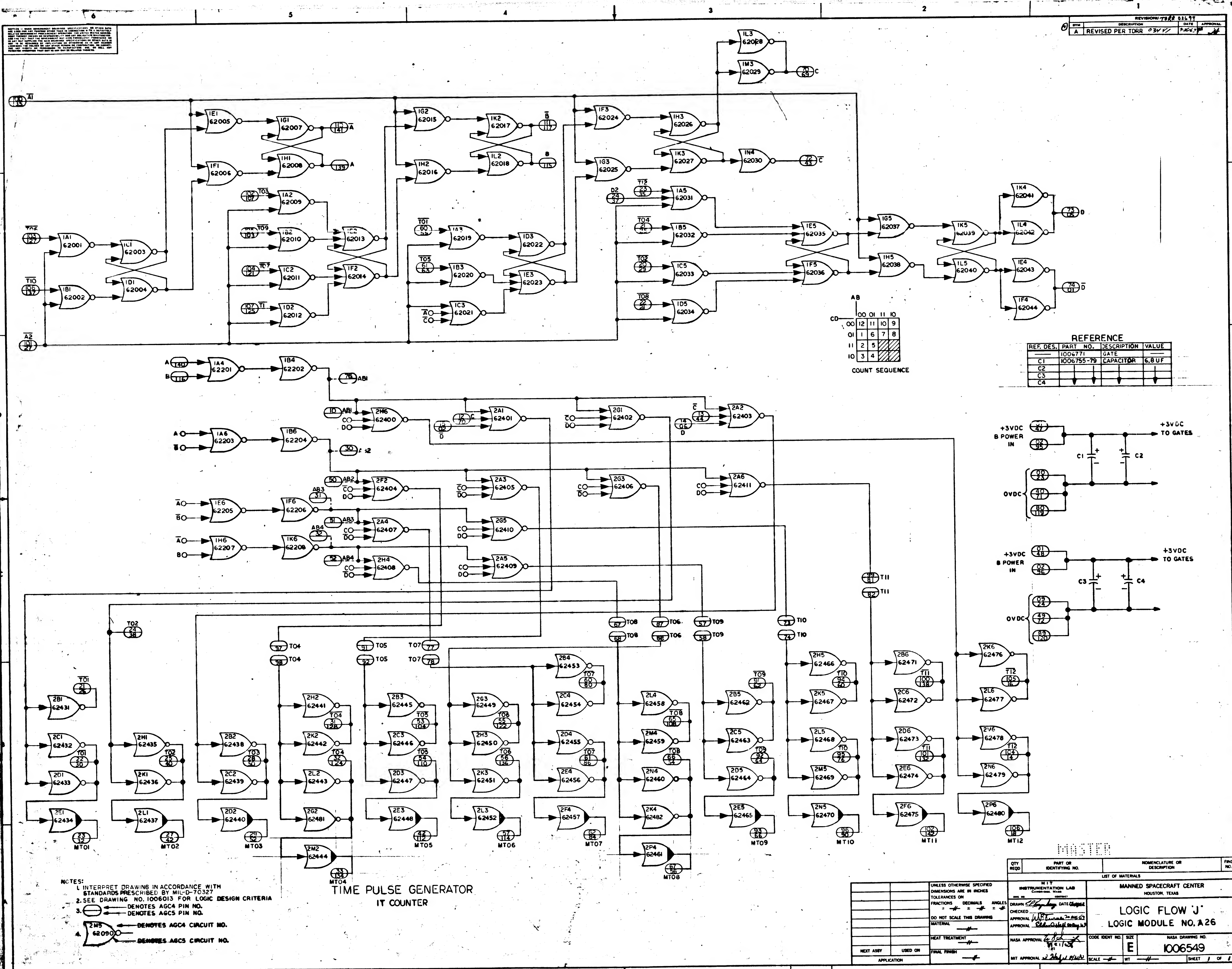
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FINO NO.
LIST OF MATERIALS			
MIL-STD-883C		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL		DRAWN: <i>[Signature]</i> DATE: <i>[Date]</i> CHECKED: <i>[Signature]</i> DATE: <i>[Date]</i> APPROVAL: <i>[Signature]</i> DATE: <i>[Date]</i> MATERIAL: <i>[Signature]</i> DATE: <i>[Date]</i>	
HEAT TREATMENT		NASA APPROVAL: <i>[Signature]</i> CODE IDENT NO. SIZE E 1006548	
NEXT ASSY USED ON		SCALE	
APPLICATION		SHEET 1 OF 2	

INCHES
PHOTOGRAPHIC SCALE ONLY

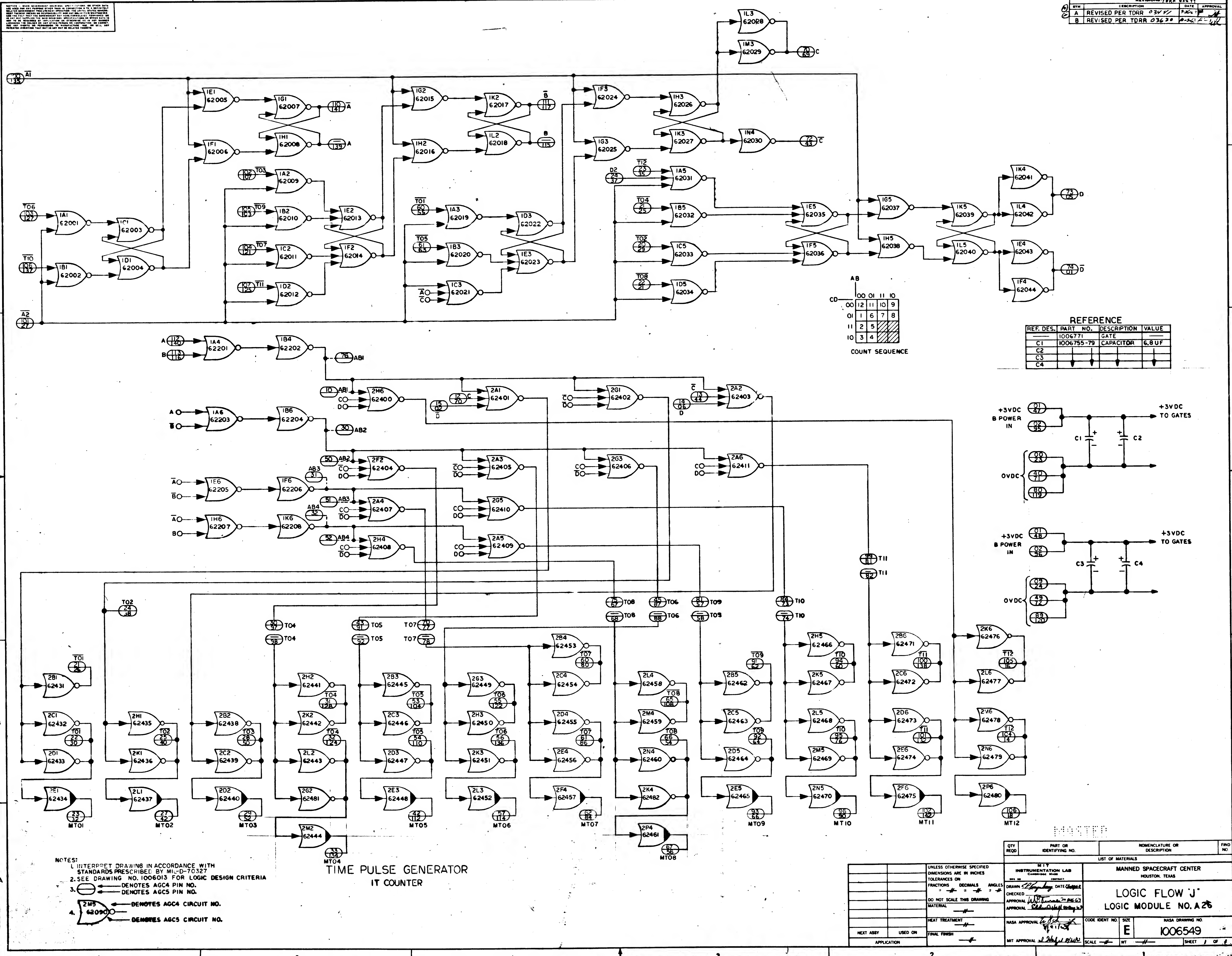
REVISIONS <i>TDRR 01572</i>			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 03612	10-263	<i>WR</i>



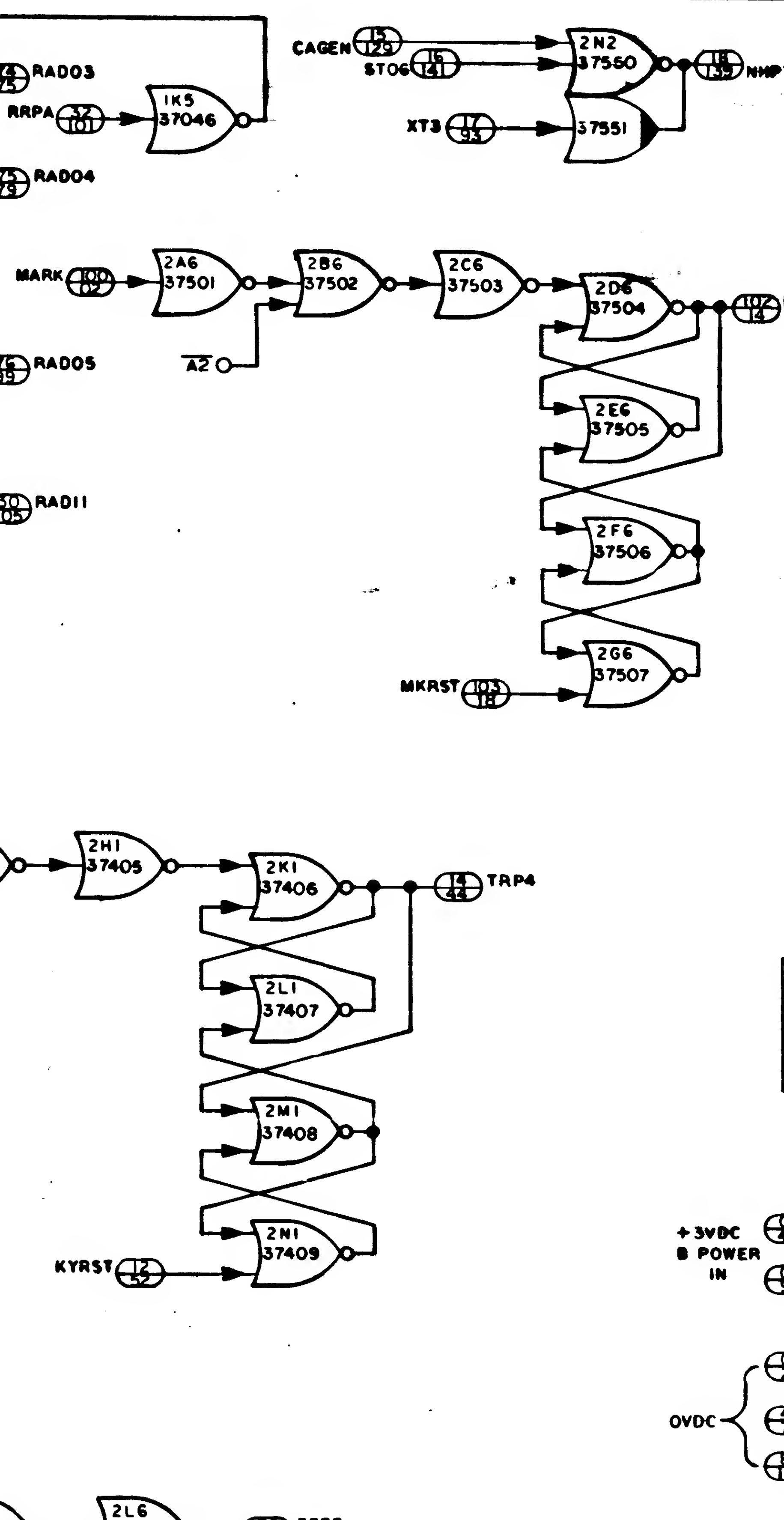
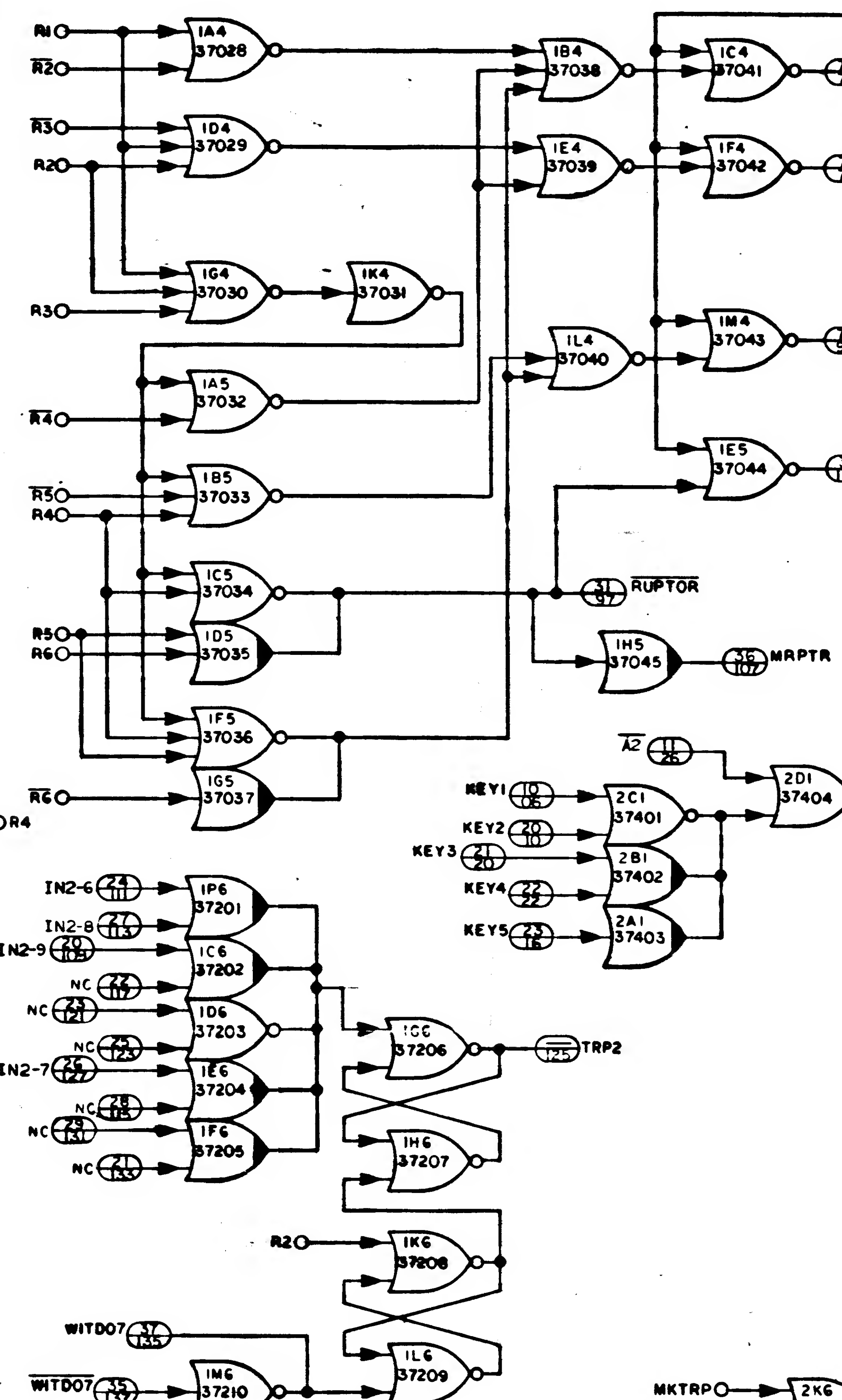
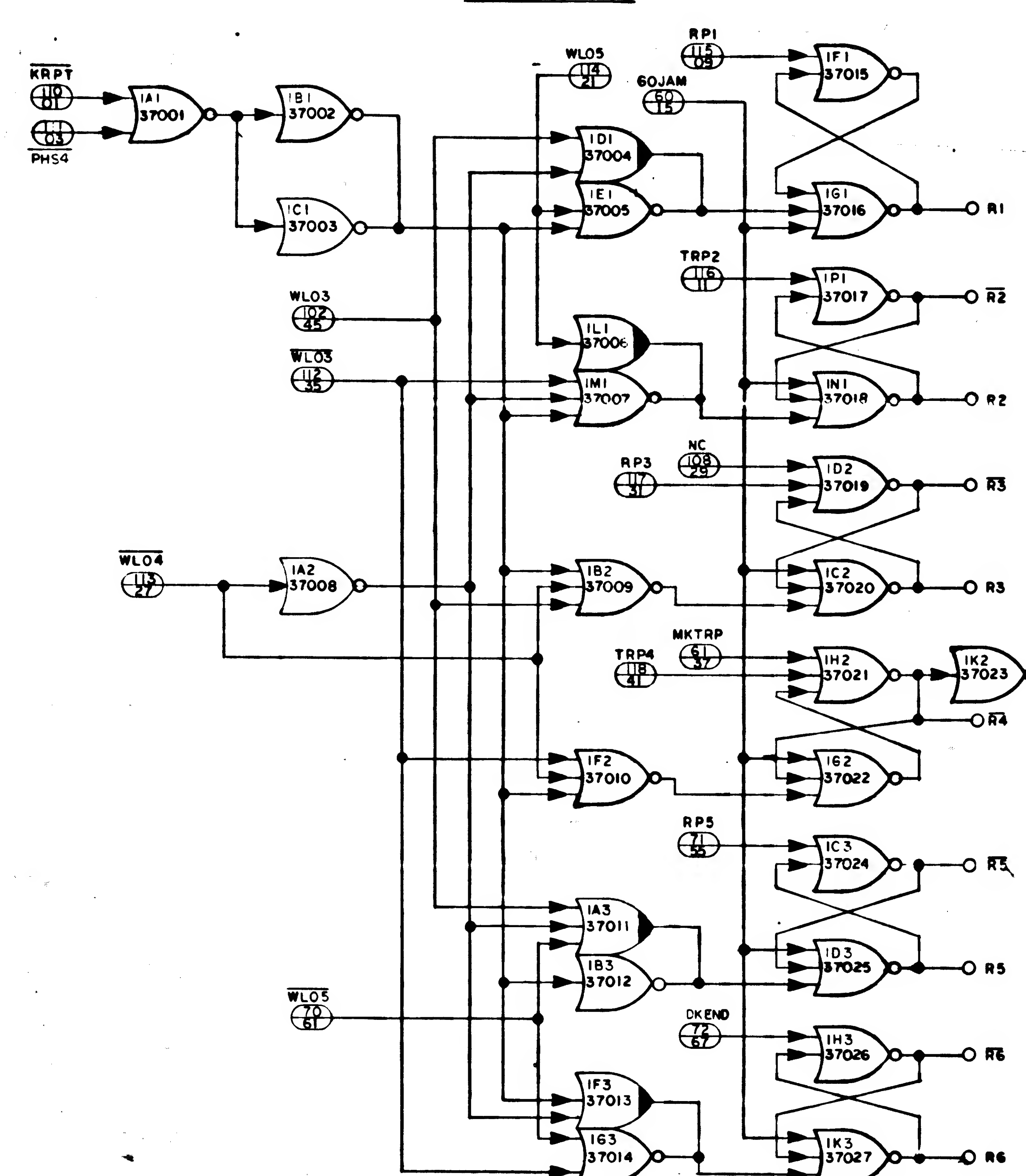
- | | | | | | | | | | |
|--|--|---|--|---|--|--|--|-------------------|--|
| <div style="text-align: center; font-size: 2em; font-weight: bold;">MASTER</div> | | QTY REQ
_____ | | PART OR IDENTIFYING NO.
_____ | | NOMENCLATURE OR DESCRIPTION
_____ | | FINO NO.
_____ | |
| | | | | LIST OF MATERIALS | | | | | |
| | | UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FRACTIONS DECIMALS * ANGLES * | | M I T
INSTRUMENTATION LAB
CAMDEN ROAD
FREE, MD
COUNTRY: | | MANNED SPACECRAFT CENTER
HOUSTON, TEXAS | | | |
| | | DO NOT SCALE THIS DRAWING
MATERIAL | | DATE <u>11/10/68</u>
CHECKED <u>11/10/68</u>
APPROVAL <u>11/10/68</u>
APPROVAL <u>11/10/68</u> | | LOGIC FLOW 'H'
LOGIC MODULE NO. A30-A2 | | | |
| | | HEAT TREATMENT | | NASA APPROVAL <u>[Signature]</u> | | POCKET IDENT NO. _____ | | SIZE _____ | |
| NEXT ASSY _____ | | FINISH _____ | | BRIT APPROVAL <u>[Signature]</u> | | SCALE _____ | | E <u>1006548</u> | |
| APPLICATION _____ | | | | | | WT _____ | | SHEET 1 OF 2 | |



NOTES: 1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. 2. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA. 3. DENOTES AGC4 PIN NO. DENOTES AGC5 PIN NO. 4. DENOTES AGC4 CIRCUIT NO. DENOTES AGC5 CIRCUIT NO.

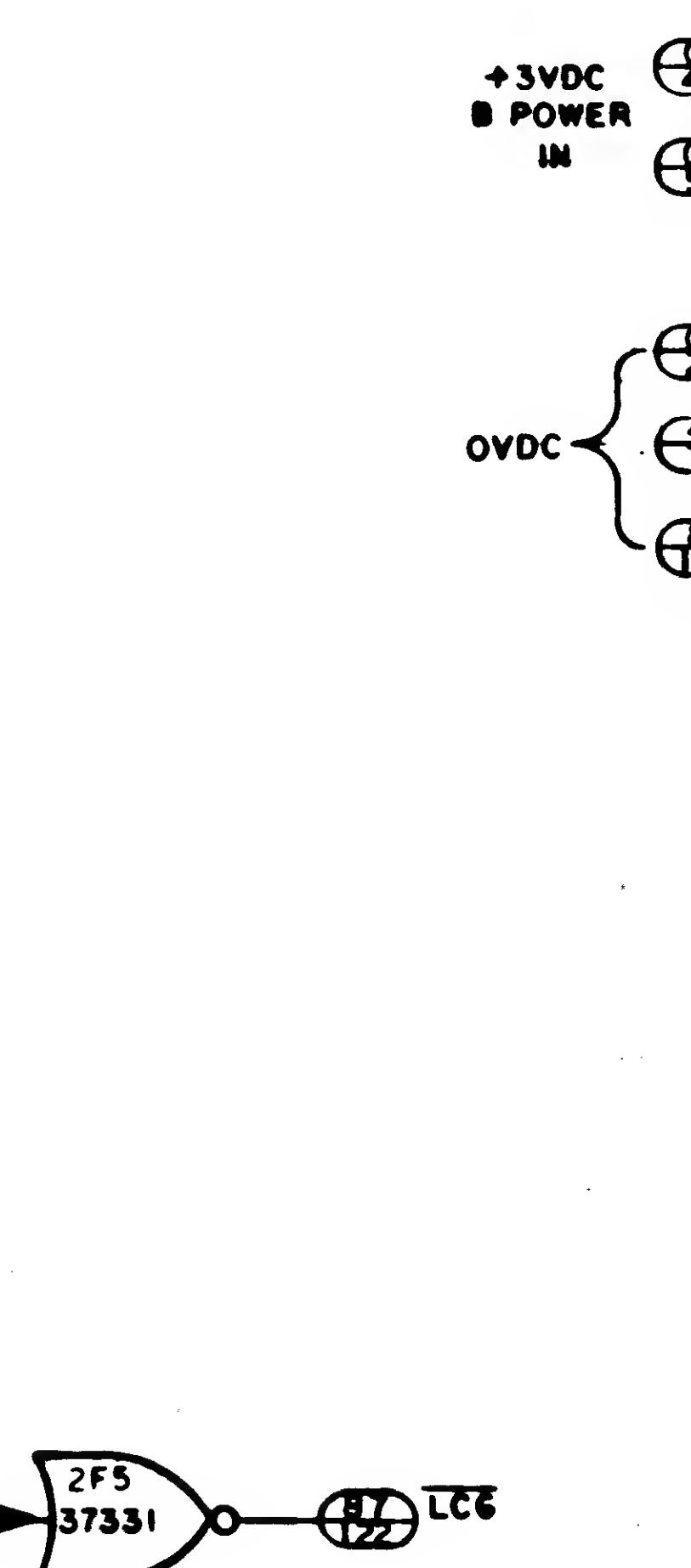
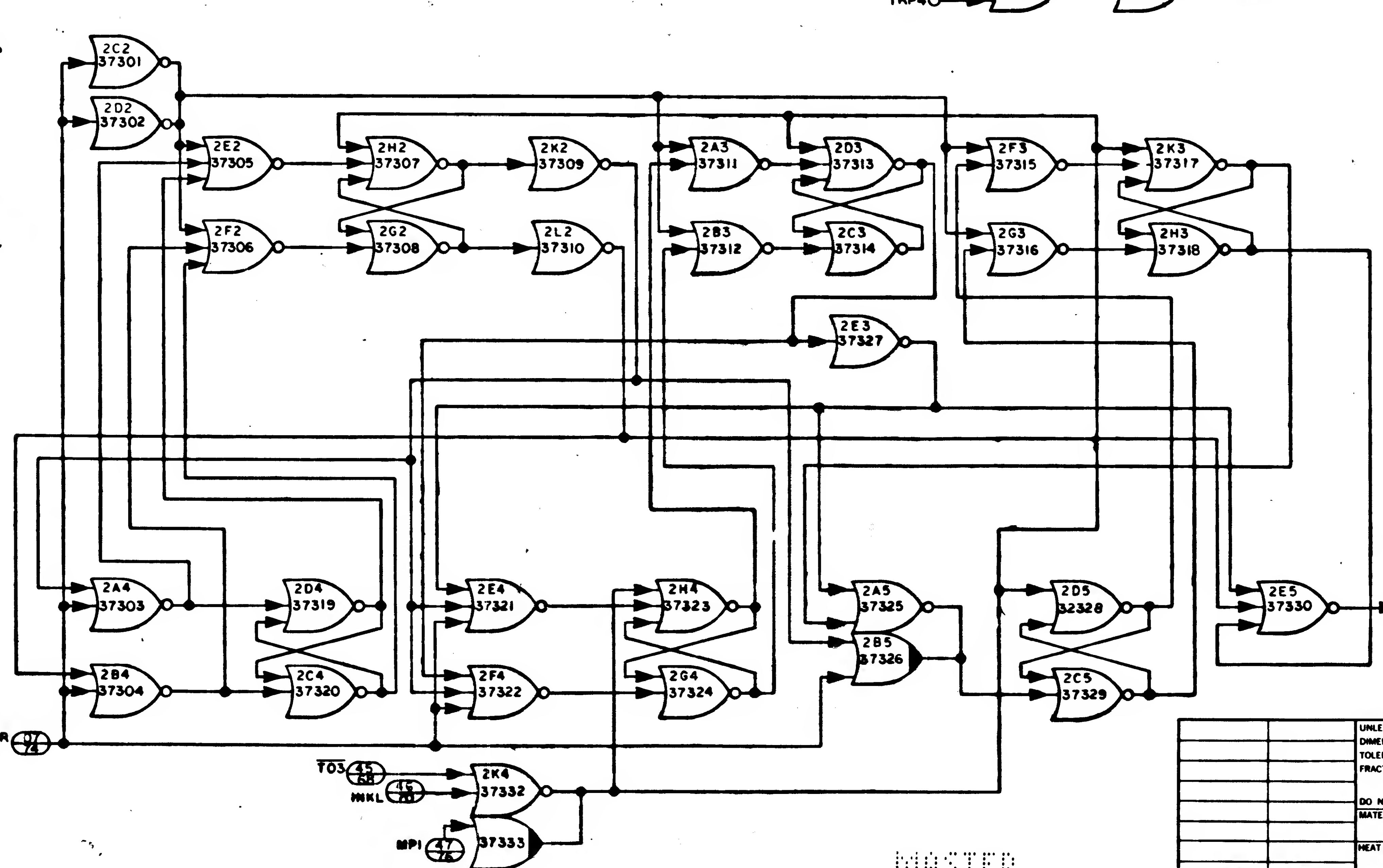
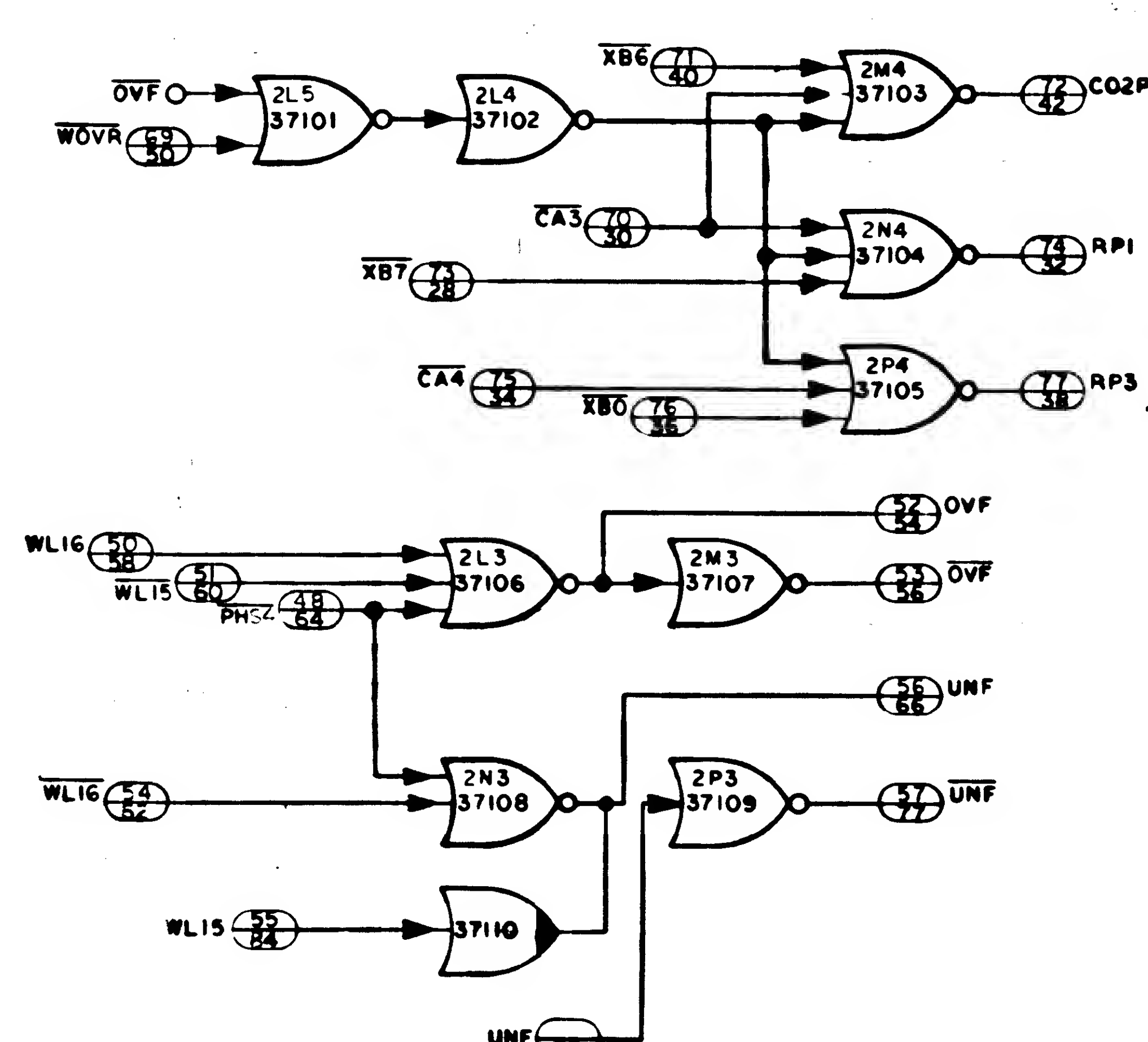
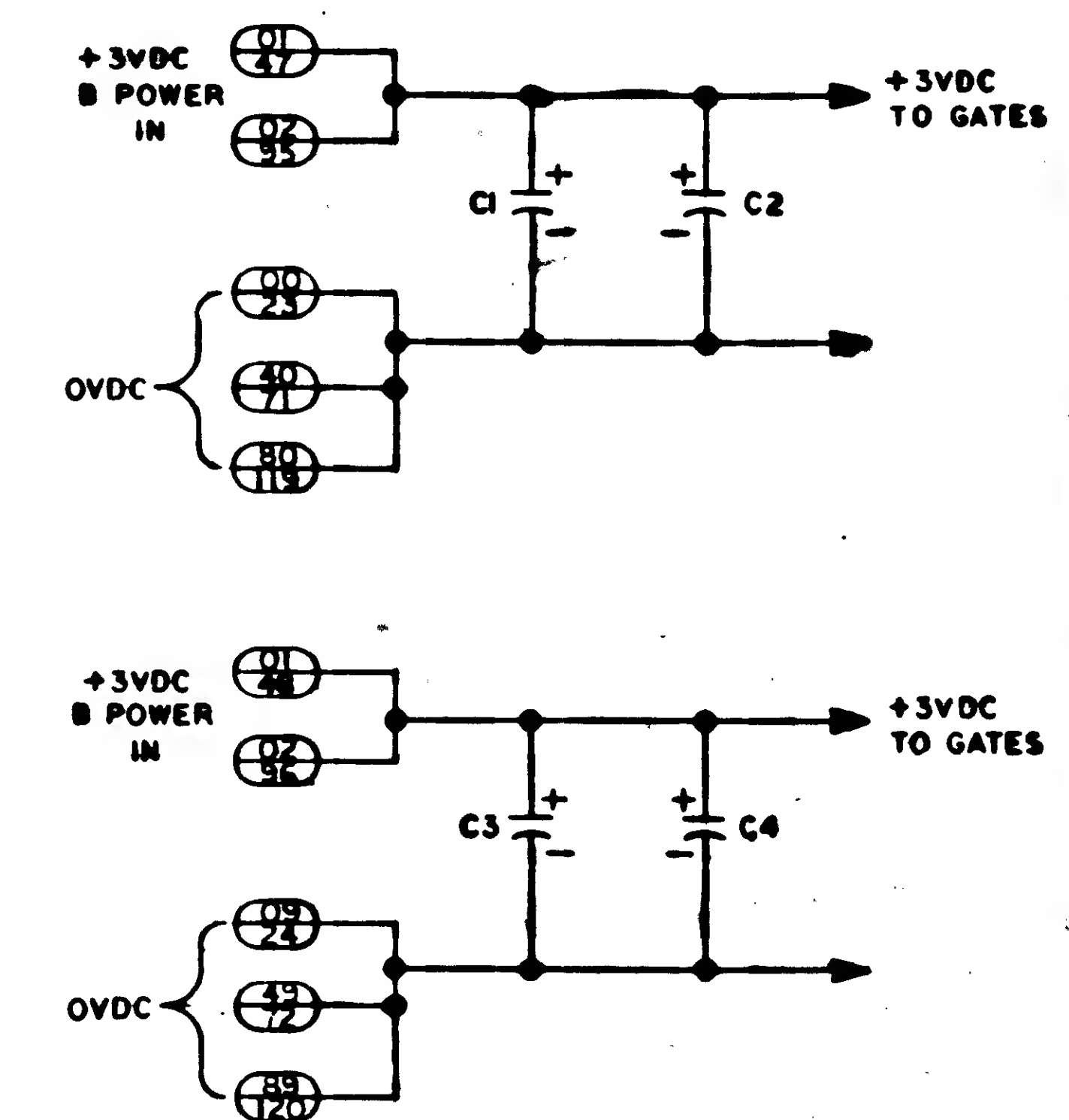


1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
2. DESCRIBED BY MIL-D-70327
3. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA
4. DENOTES AGC 4 PIN NO.
5. DENOTES AGC 5 PIN NO.
6. DENOTES AGC 4 CIRCUIT NO.
7. DENOTES AGC 5 CIRCUIT NO.



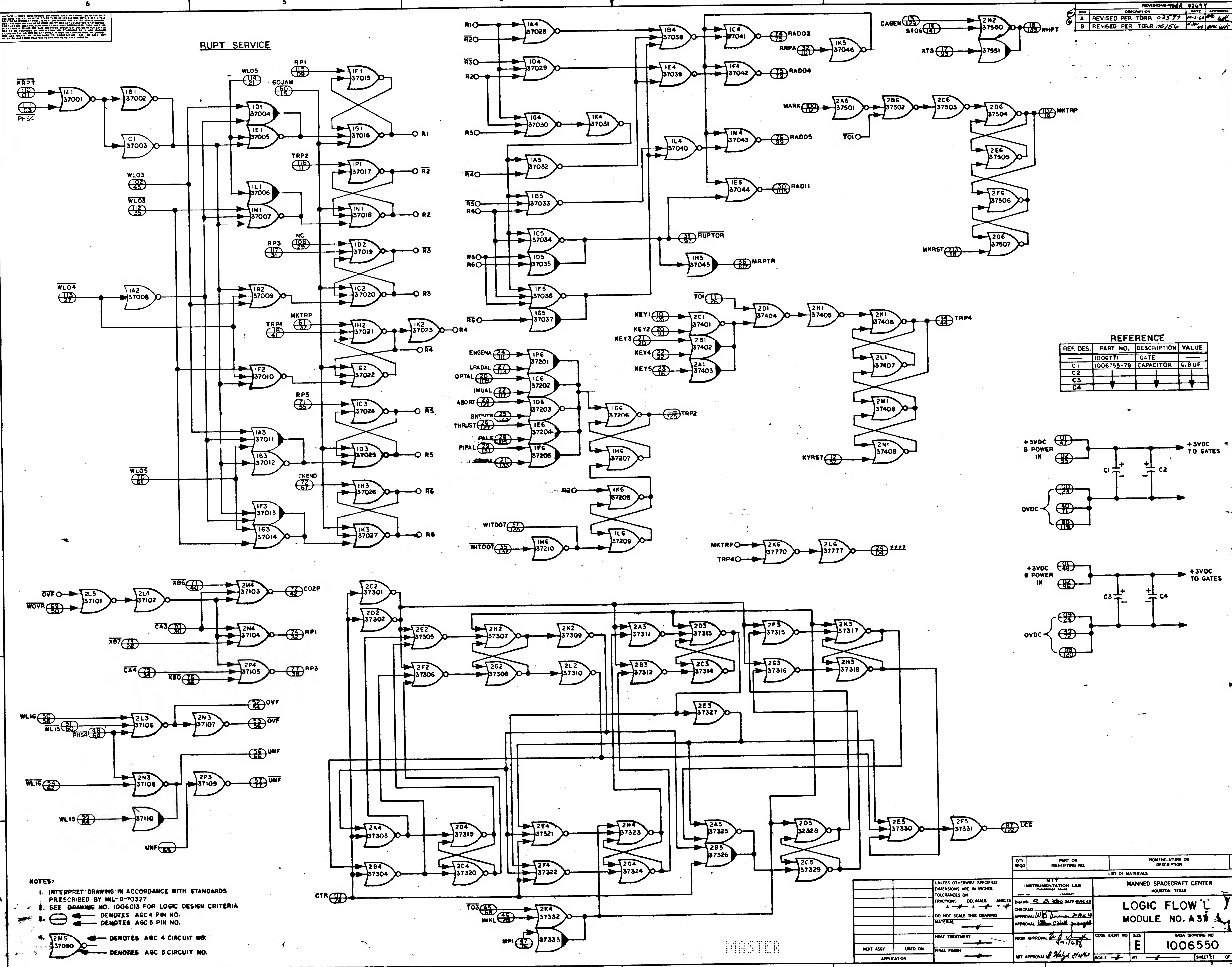
REV	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDAR 03577	11/1/67	W. J. H.
B	REVISED PER TDAR 06234	11/1/67	W. J. H.
C	REVISED PER TDAR 06234	11/1/67	W. J. H.
D	REVISED PER TDAR 06234	11/1/67	W. J. H.
E	REVISED PER TDAR 07556	11/1/67	W. J. H.

REF. DES.	PART NO.	DESCRIPTION	VALUE
C1	1006771	GATE	
C2	1006755-79	CAPACITOR	6.8 UF
C3			
C4			



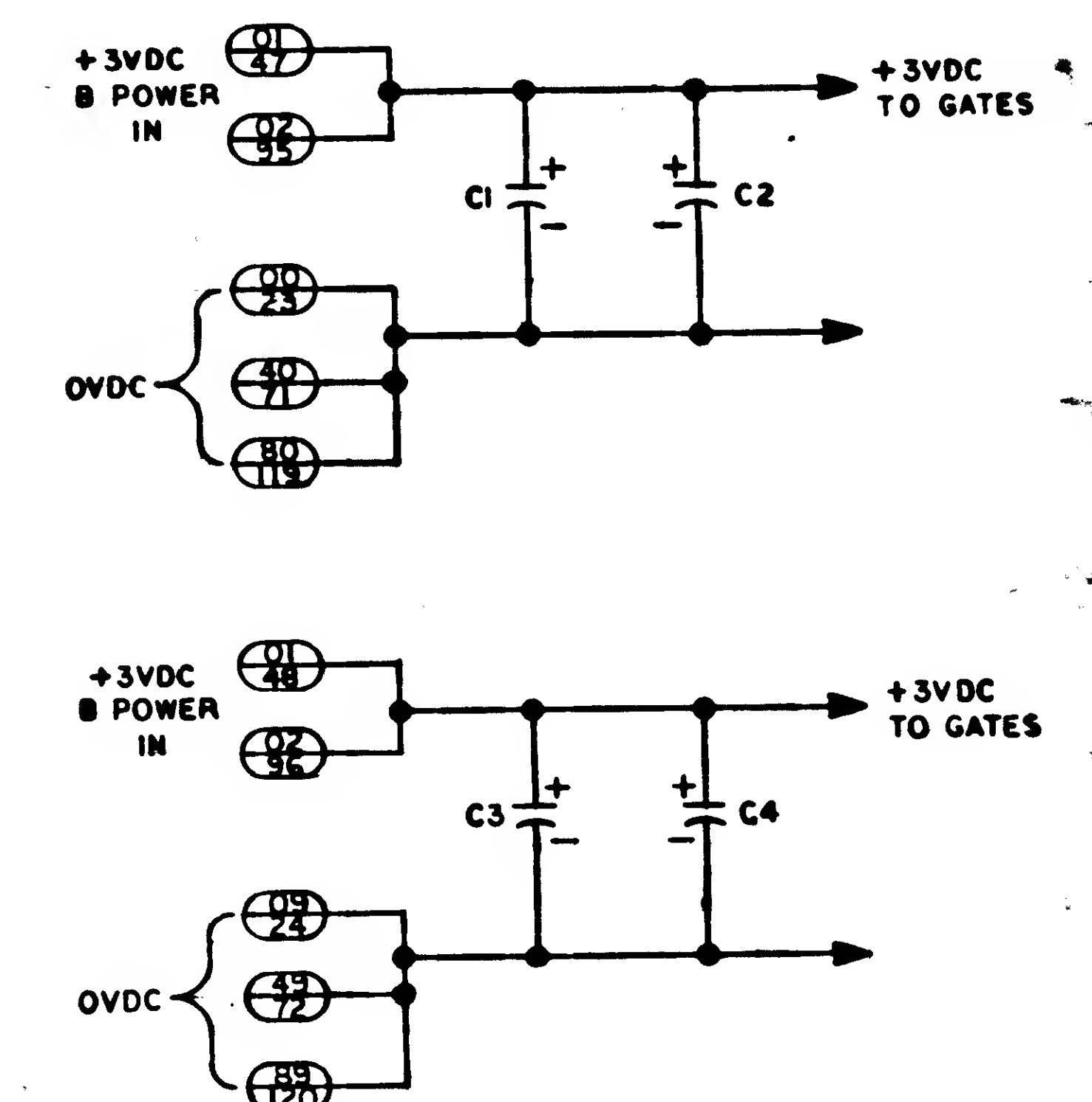
NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
2. DESCRIBED BY MIL-D-70327
3. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA
4. DENOTES AGC 4 PIN NO.
5. DENOTES AGC 5 PIN NO.
6. DENOTES AGC 4 CIRCUIT NO.
7. DENOTES AGC 5 CIRCUIT NO.

QTY REQD	PART OR IDENTIFYING NO.	NAME OR DESCRIPTION	FILE NO.
LIST OF MATERIALS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL HEAT TREATMENT USED ON NEXT ASSY APPLICATION			
MILITARY INSTRUMENTATION LAB CHECKED APPROVAL DATE		MANNED SPACECRAFT CENTER HOUSTON, TEXAS LOGIC FLOW MODULE NO. A37 CODE IDENT NO E NASA DRAWING NO 1006550 SCALE SHEET 1 OF 1	



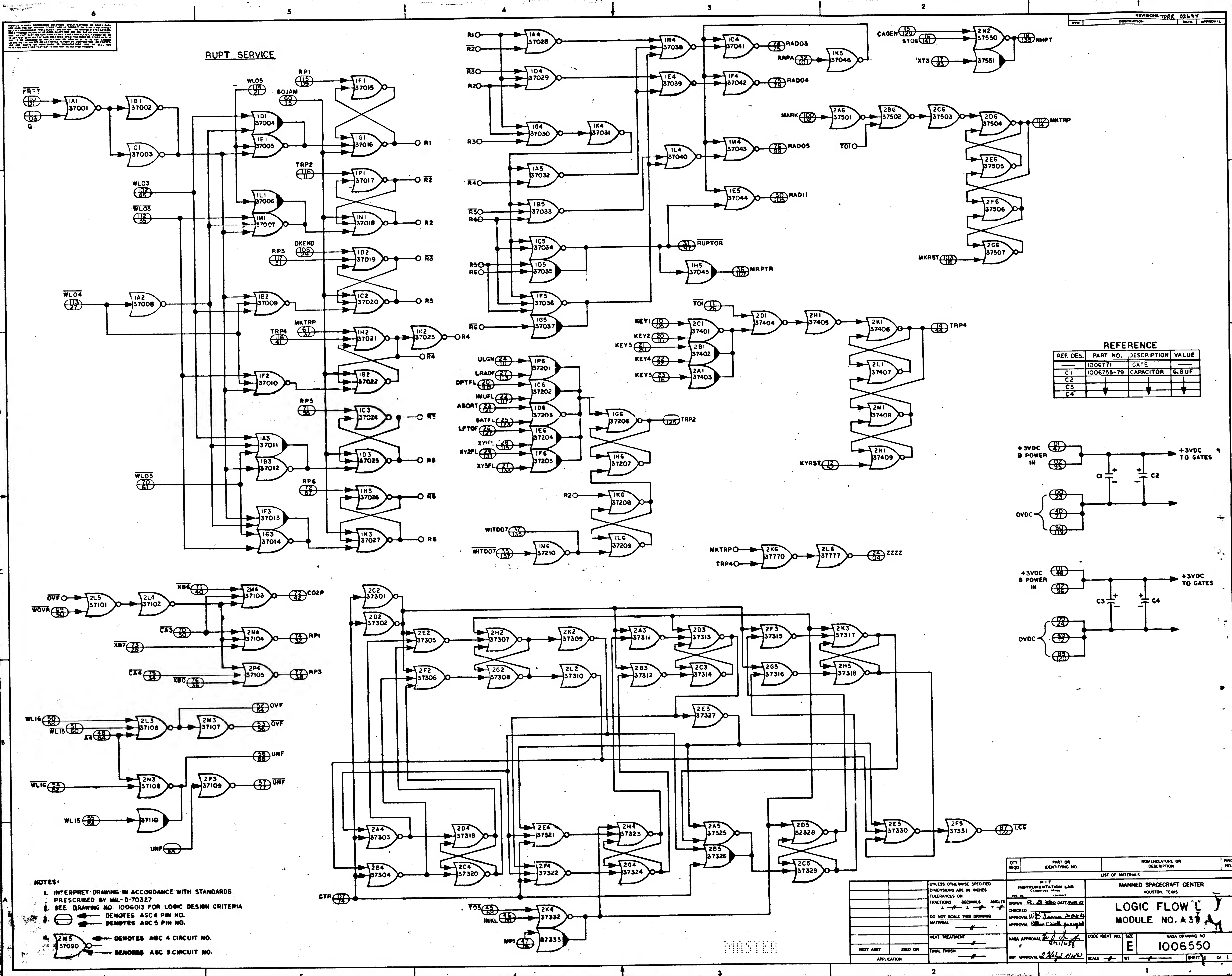
REV	DESCRIPTION	DATE	APPROVAL
1	REVISED PER TDR 02577	10-1-68	W. J. W.
2	REVISED PER TDR 06756	10-1-68	W. J. W.

REF. DES.	PART NO.	DESCRIPTION	VALUE
C1	1006771	GATE	
C2	1006755-79	CAPACITOR	0.1UF
C3			
C4			

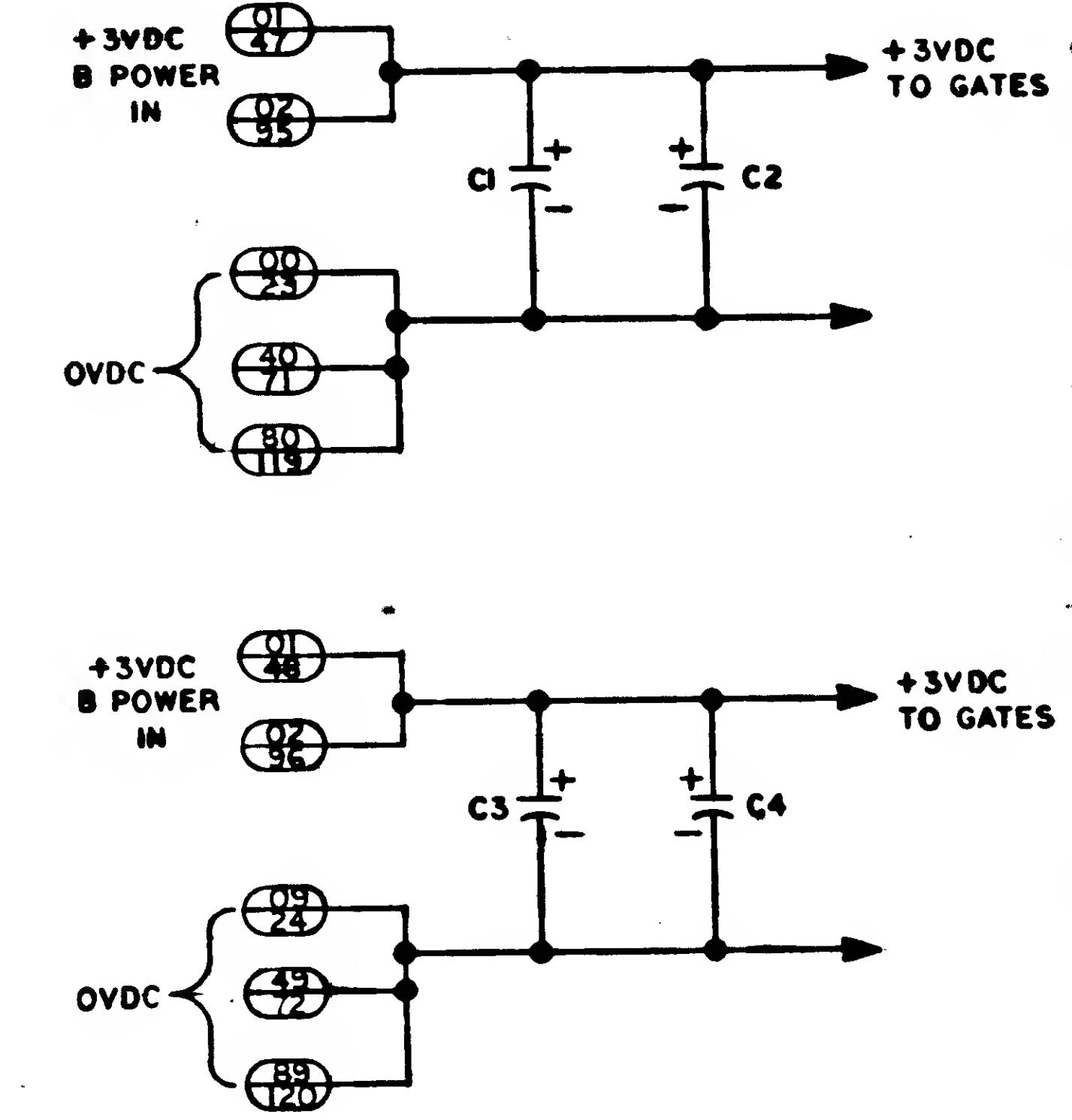


- NOTES:
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 - SEE DRAWING NO. 1006015 FOR LOGIC DESIGN CRITERIA
 - DENOTES AGC 4 PIN NO.
● DENOTES AGC 5 PIN NO.
 - 2M5 37090 DENOTES AGC 4 CIRCUIT NO.
2M5 37090 DENOTES AGC 5 CIRCUIT NO.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FINO NO.
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
LOGIC FLOW 'L' MODULE NO. A37			
CODE IDENT NO. E		SIZE	NASA DRAWING NO. 1006550
SCALE		WT	SHEET 1 OF 1



REFERENCE			
REF. DES.	PART NO.	DESCRIPTION	VALUE
C1	1006771	GATE	
C2	1006755-79	CAPACITOR	6.8UF
C3			
C4			

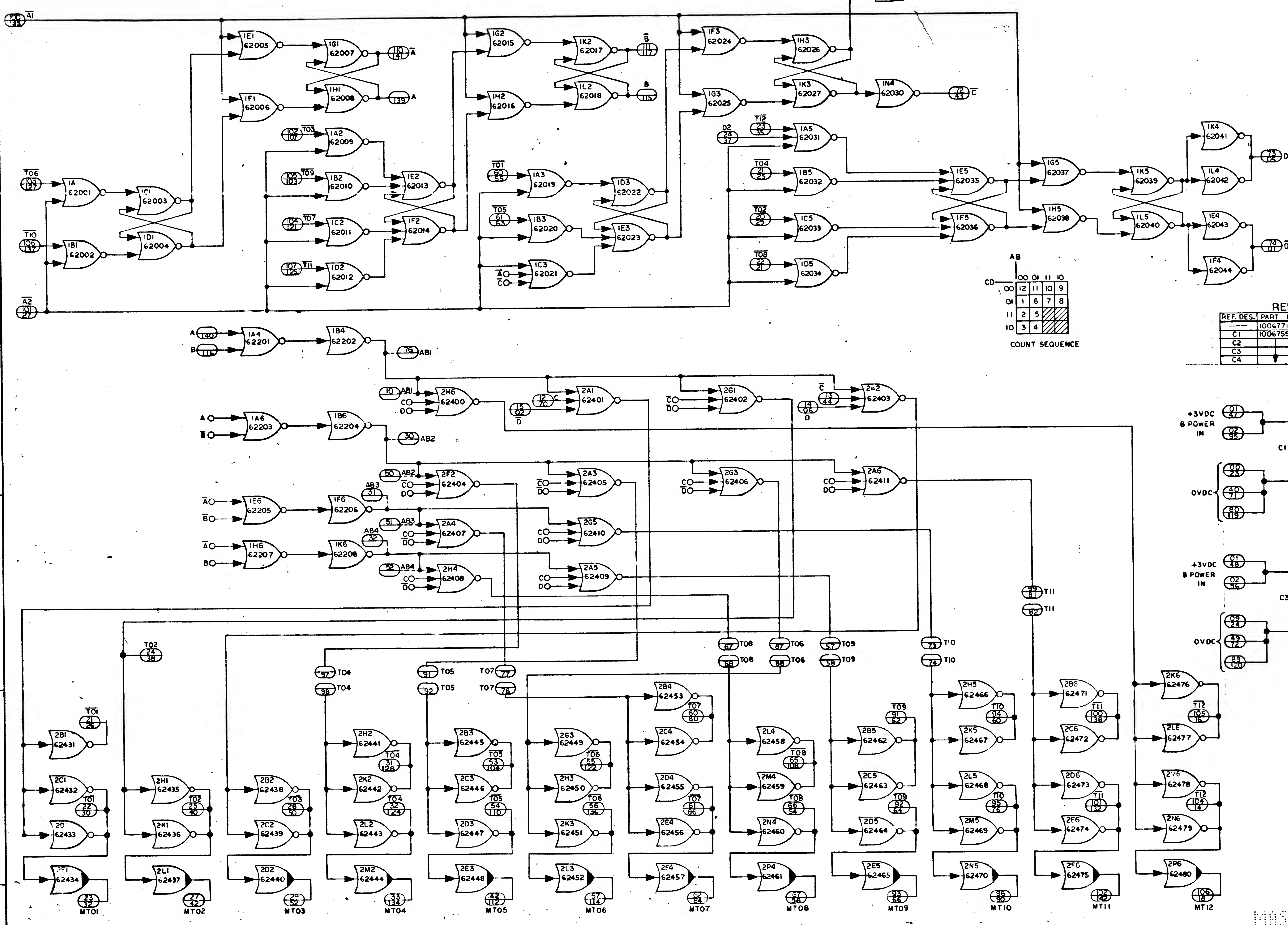


- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-0-70327
 2. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA
 3. DENOTES AGC 4 PIN NO.
 4. DENOTES AGC 5 PIN NO.
 5. DENOTES AGC 4 CIRCUIT NO.
 6. DENOTES AGC 5 CIRCUIT NO.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REV NO.
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
LOGIC FLOW L MODULE NO. A3			
NASA DRAWING NO. E 1006550			
SCALE: 1/2" = 1"			
SHEET 1 OF 1			



NOTES: 1. INTERPRET DRAWINGS IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. 2. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA. 3. DENOTES AGC4 PIN NO. 4. DENOTES AGC5 PIN NO. 5. DENOTES AGC4 CIRCUIT NO. 6. DENOTES AGC5 CIRCUIT NO.

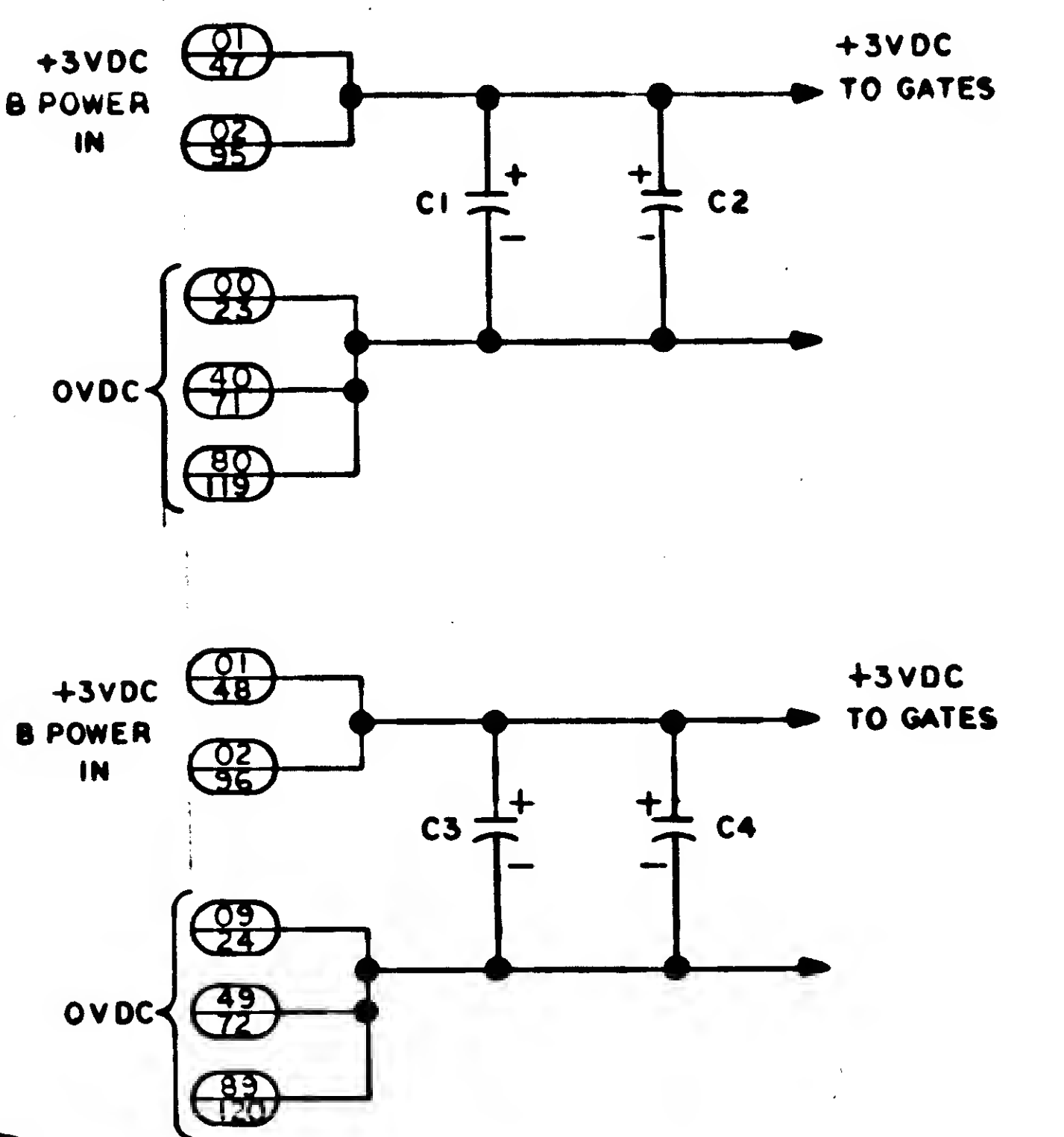


COUNT SEQUENCE

AB	00	01	11	10
00	12	11	10	9
01	1	6	7	8
11	2	5	4	3
10	3	4	5	6

REFERENCE

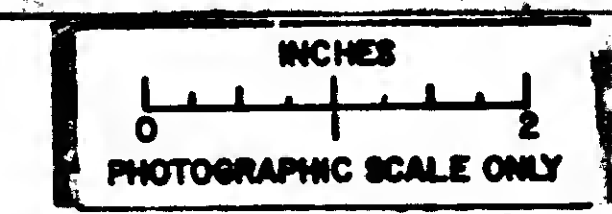
REF. DES.	PART NO.	DESCRIPTION	VALUE
C1	1006771	GATE	6.8 UF
C2	1006755-79	CAPACITOR	6.8 UF
C3			
C4			



NOTES: 1. INTERPRET DRAWINGS IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. 2. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA. 3. DENOTES AGC4 PIN NO. 4. DENOTES AGC5 PIN NO. 5. DENOTES AGC4 CIRCUIT NO. 6. DENOTES AGC5 CIRCUIT NO.

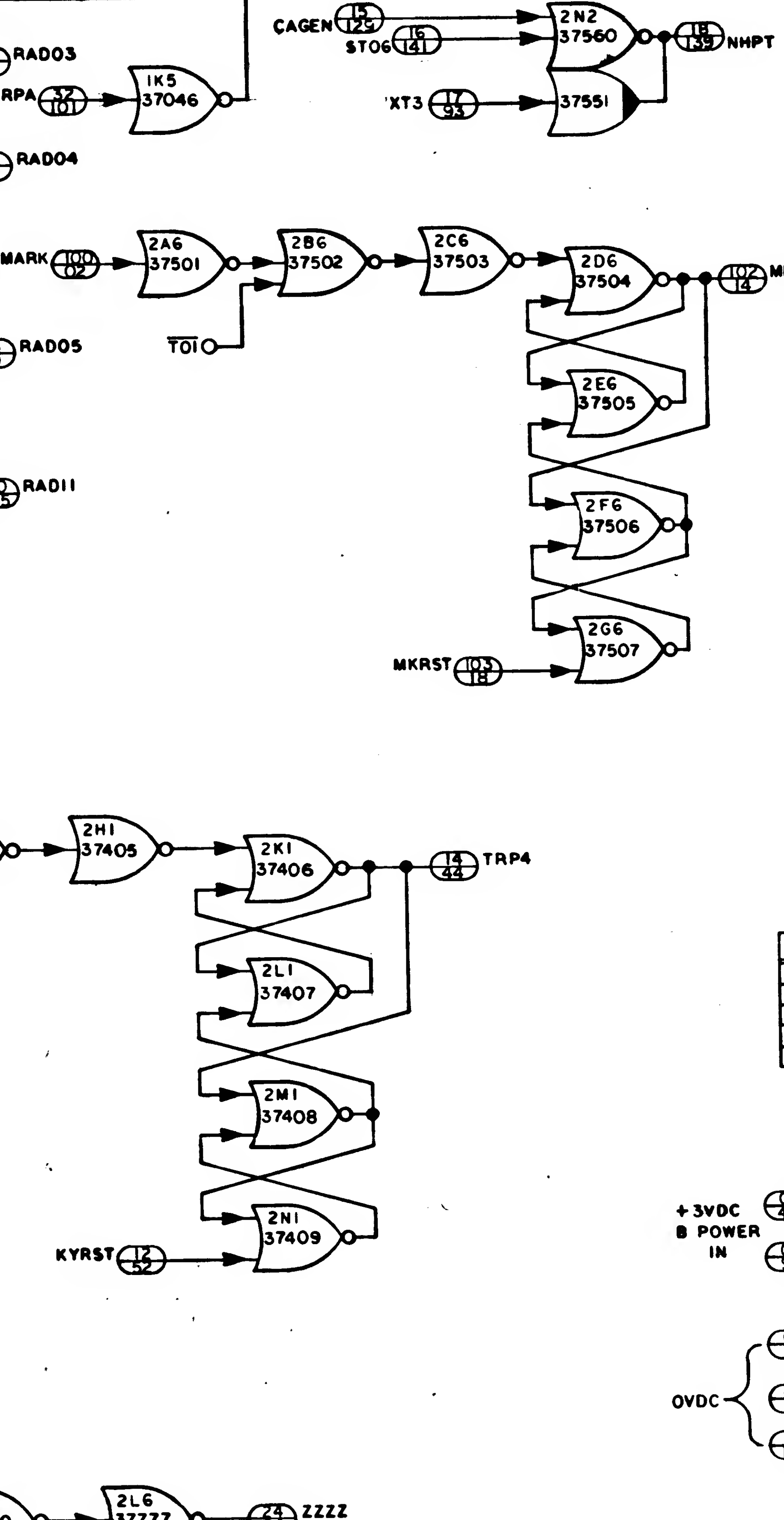
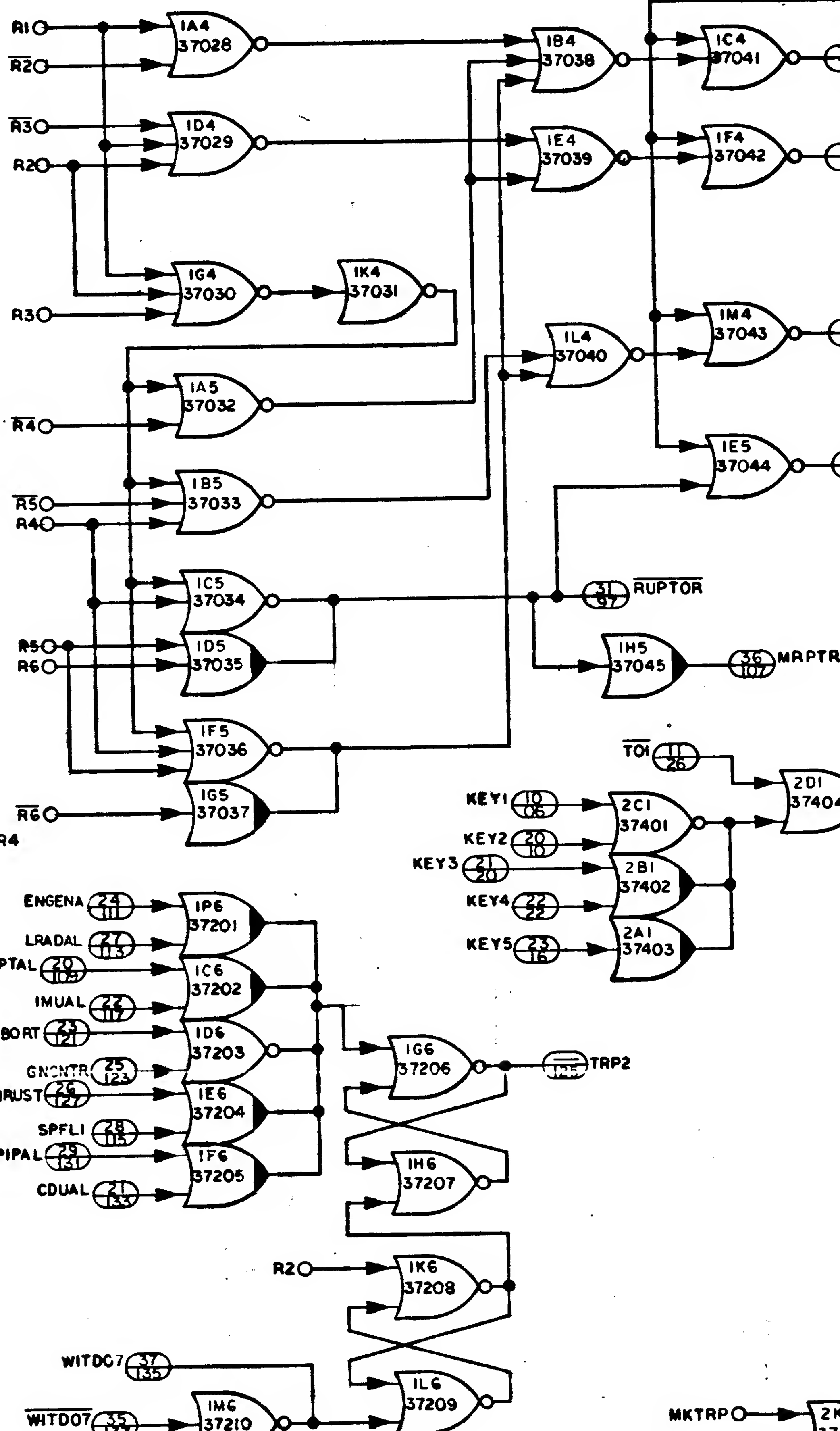
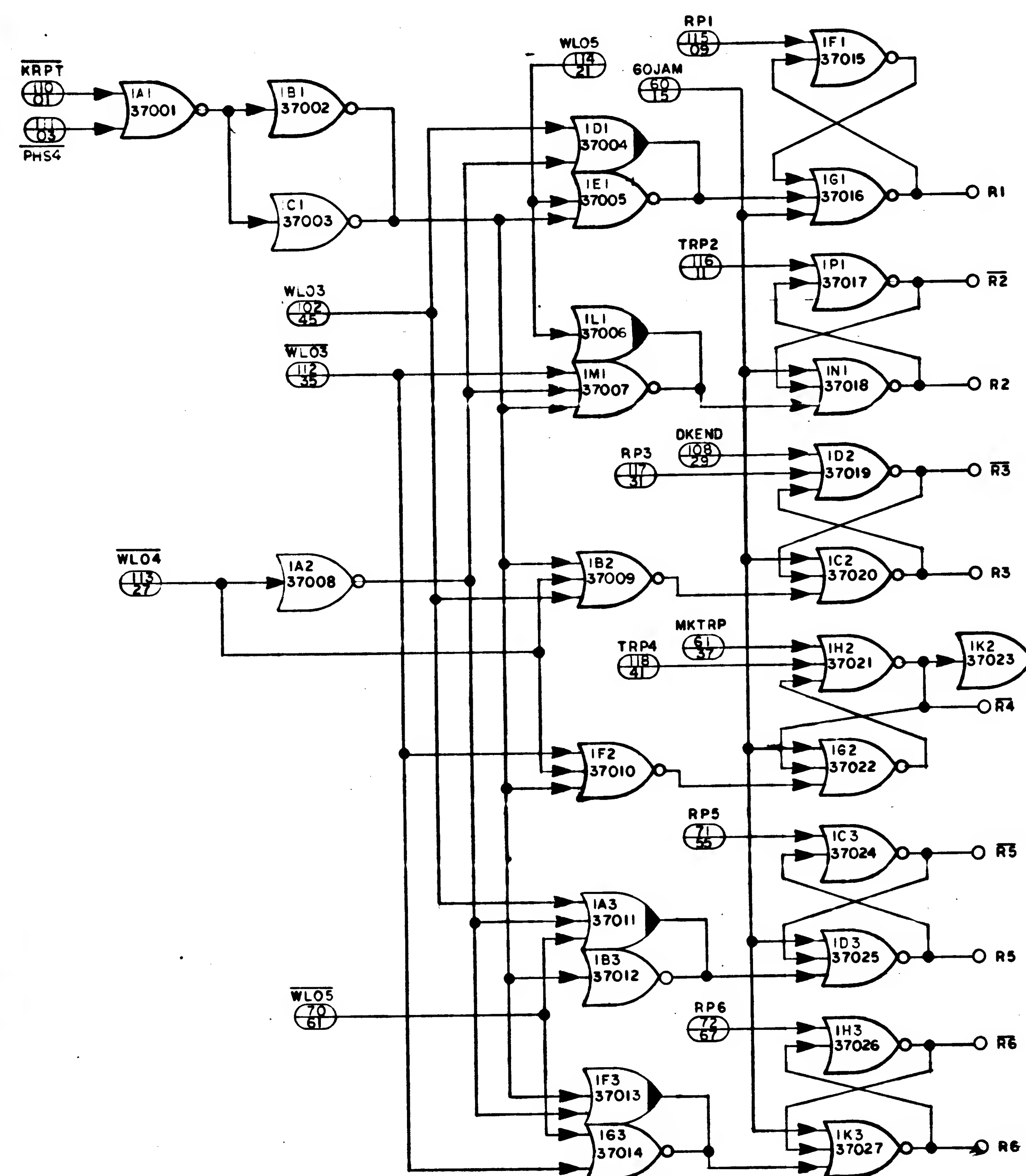
TIME PULSE GENERATOR
IT COUNTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG. NO.
LIST OF MATERIALS			
M I T		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
INSTRUMENTATION LAB CAMBRIDGE, MASS		LOGIC FLOW 'J' LOGIC MODULE NO. A26	
DRAWN BY: [Signature] DATE: [Date]		CODE IDENT NO. SIZE E	
CHECKED BY: [Signature] DATE: [Date]		NASA APPROVAL NO. 1006549	
APPROVAL BY: [Signature] DATE: [Date]		SCALE: 1/16" = 1"	
NEXT ASSY		APPLICATION	

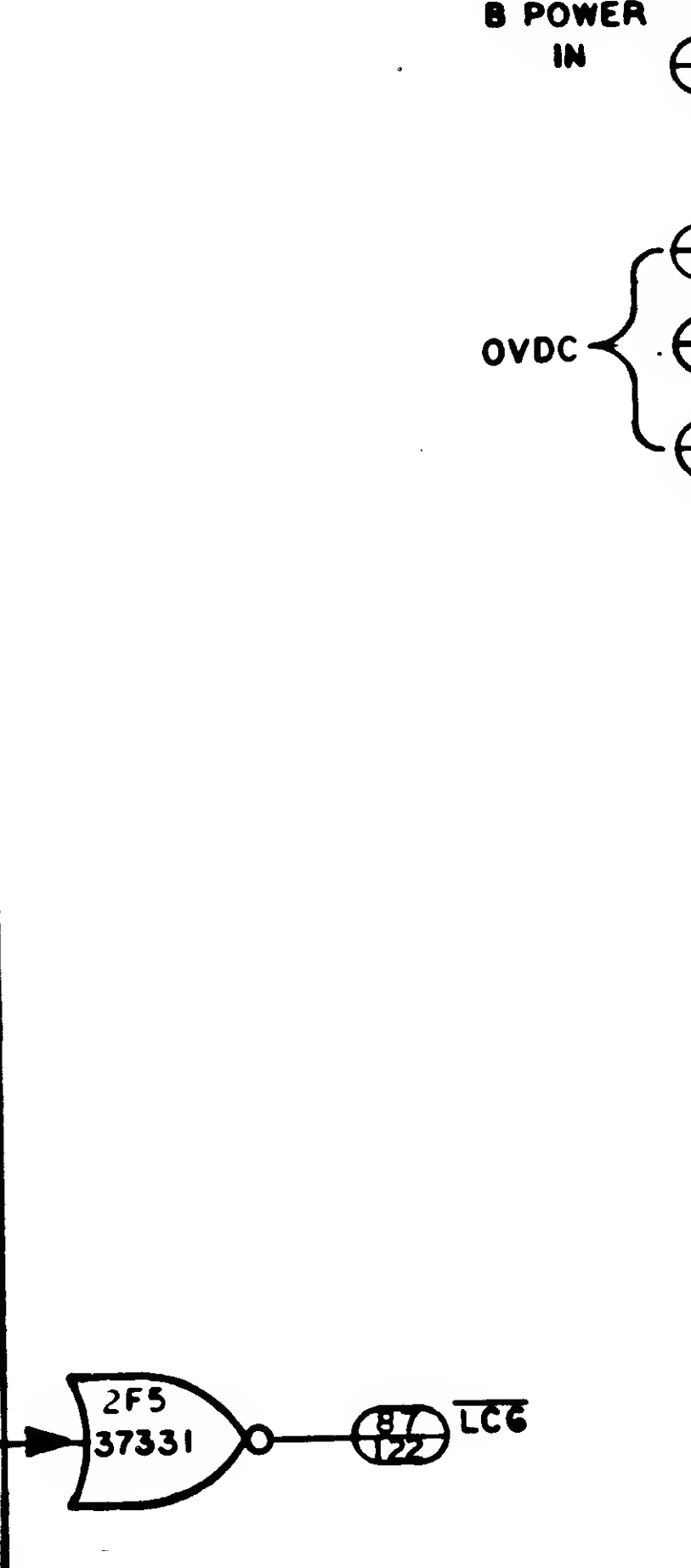
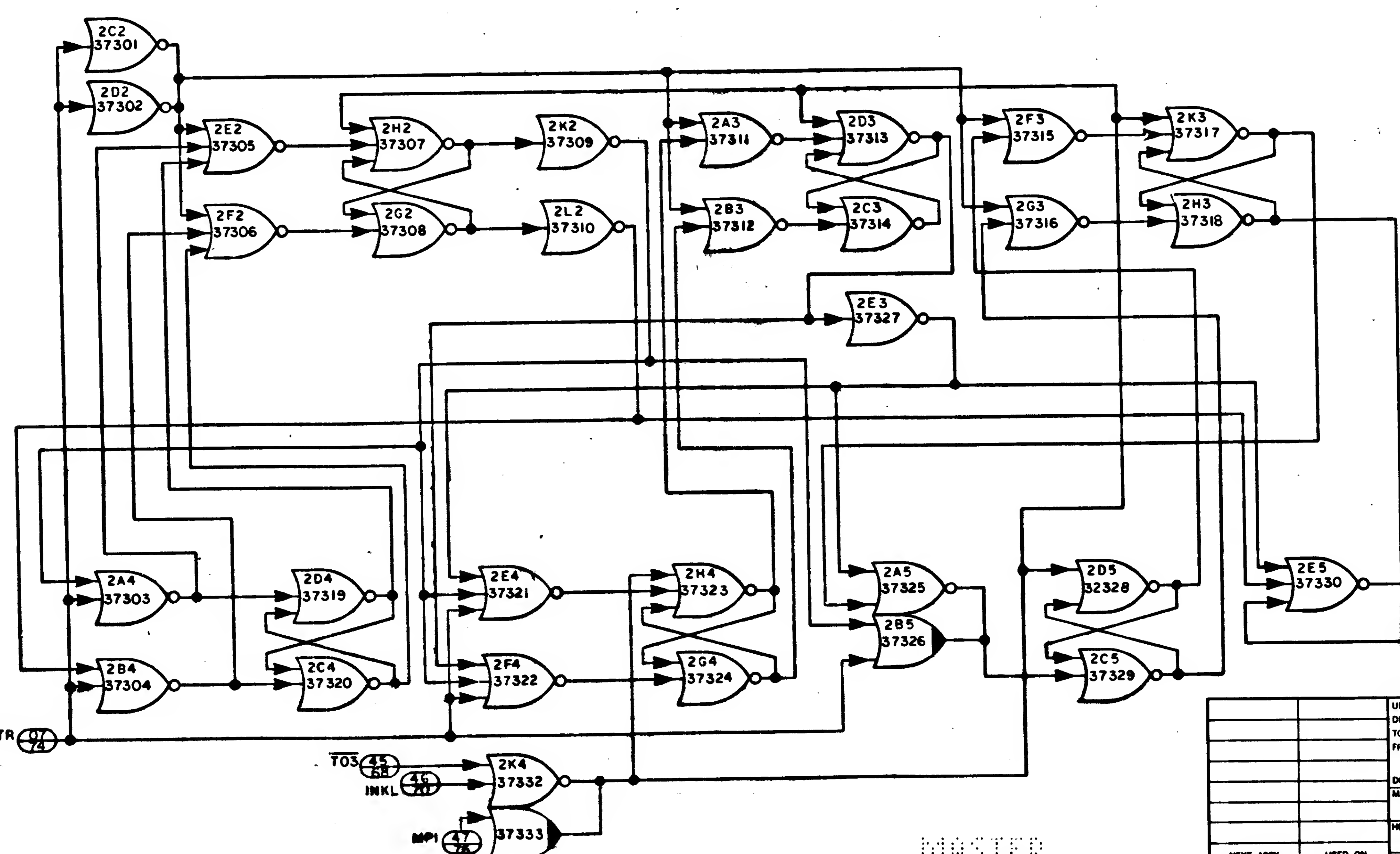
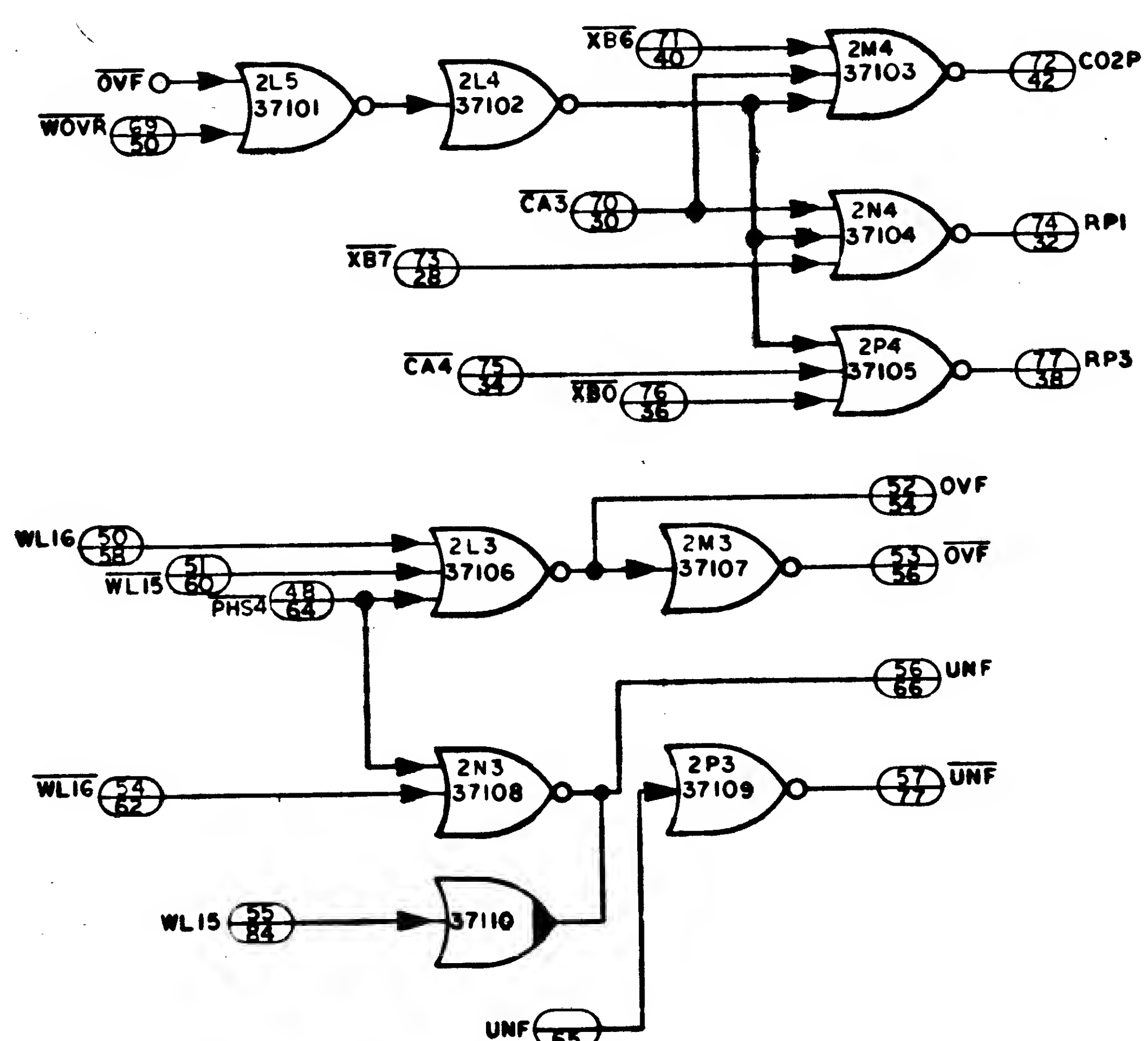
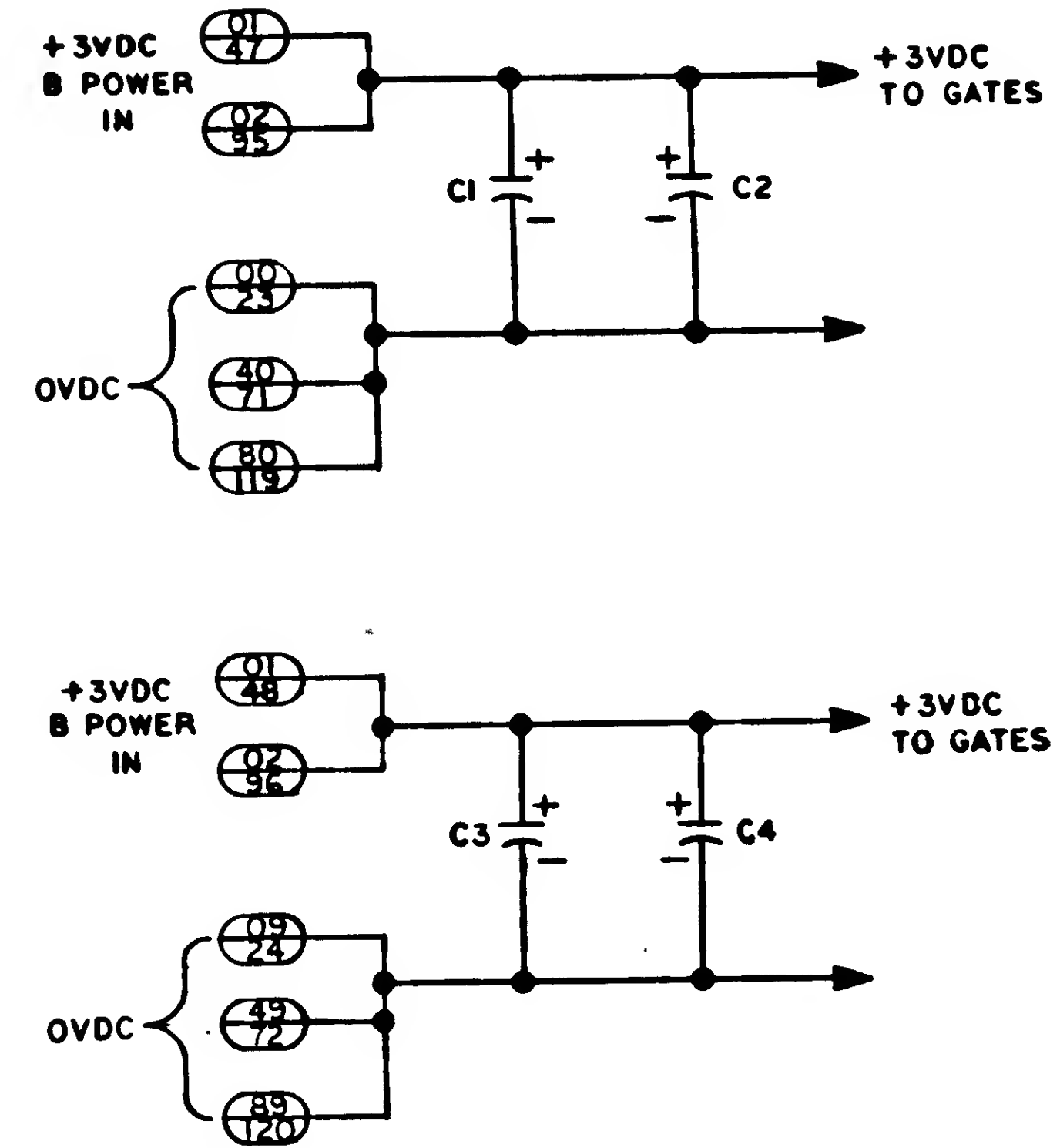


UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ON FRACTIONS: DECIMALS: ANGLES: DO NOT SCALE THIS DRAWING. MATERIAL: HEAT TREATMENT: FINISH: APPLICATION: NEXT ASSY: USED ON: FINAL FINISH: MIT APPROVAL: DATE: 10/1/65 BY: J. J. J. APPROVAL: DATE: 10/1/65 BY: J. J. J.

RUPT SERVICE



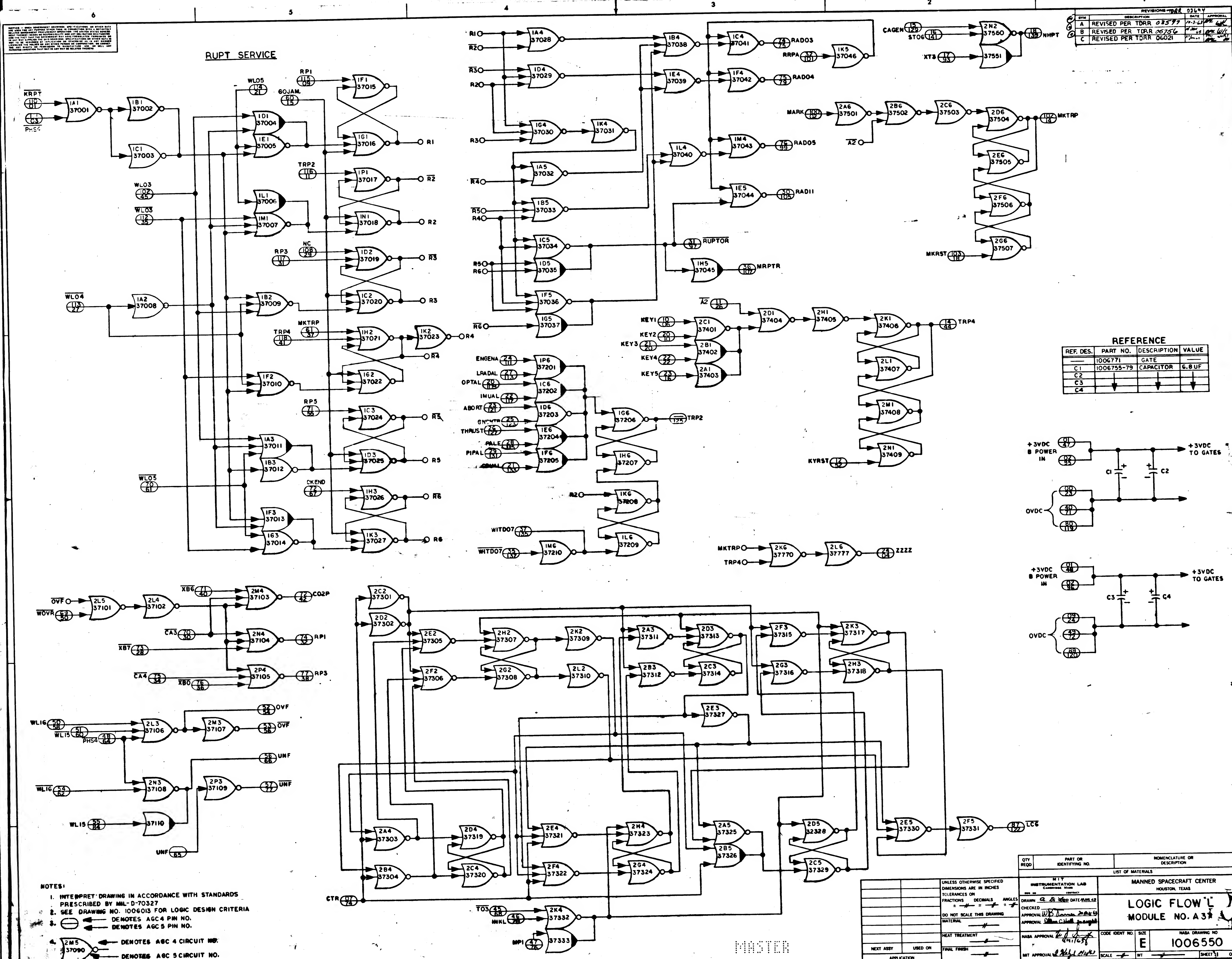
REF. DES.	PART NO.	DESCRIPTION	VALUE
C1	1006771	GATE	
C2	1006755-79	CAPACITOR	6.8 UF
C3			
C4			

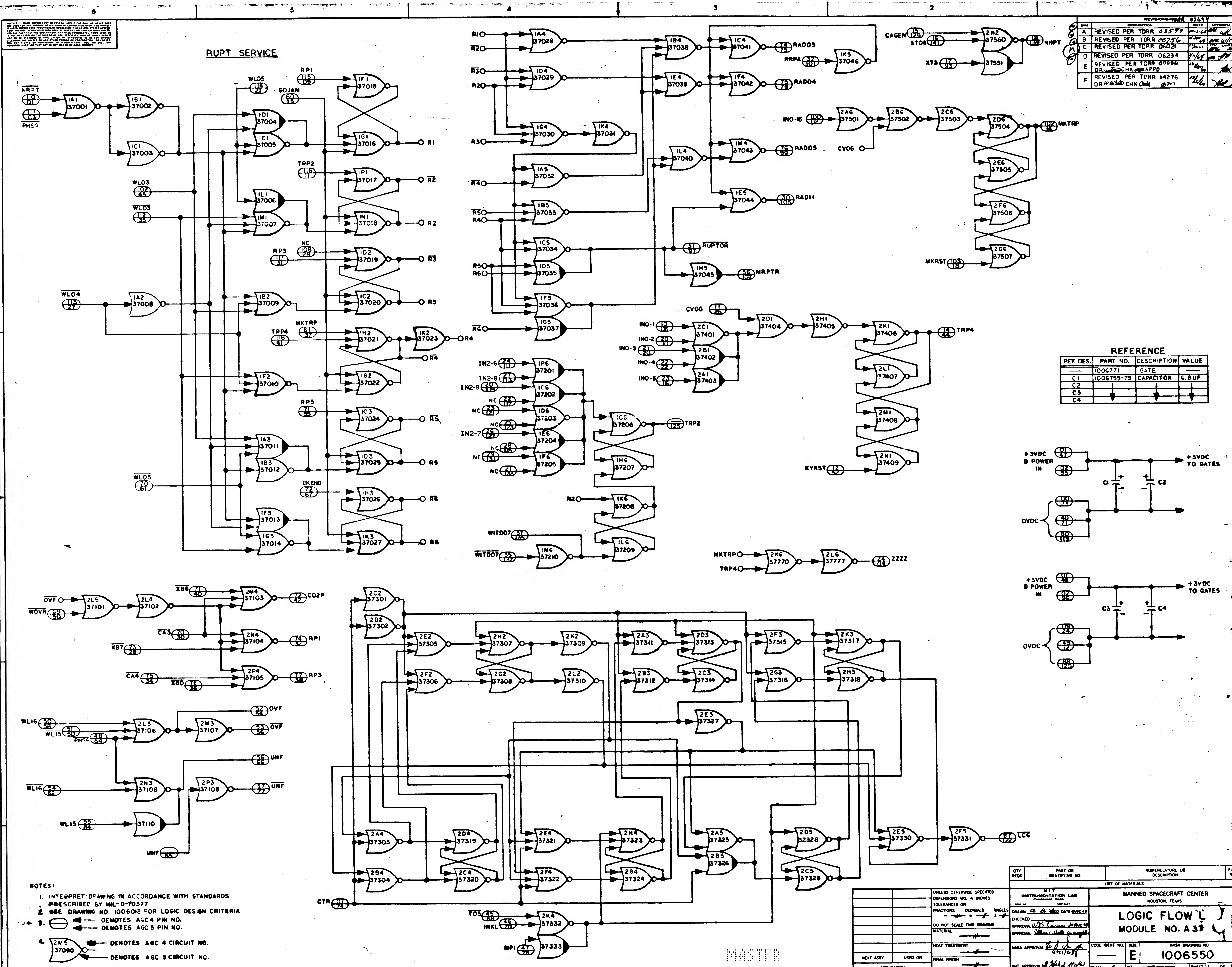


- NOTES:
- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 - SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA
 - DENOTES AGC 4 PIN NO.
DENOTES AGC 5 PIN NO.
 - 2M5 37090 DENOTES AGC 4 CIRCUIT NO.
2M5 37090 DENOTES AGC 5 CIRCUIT NO.

MASTER

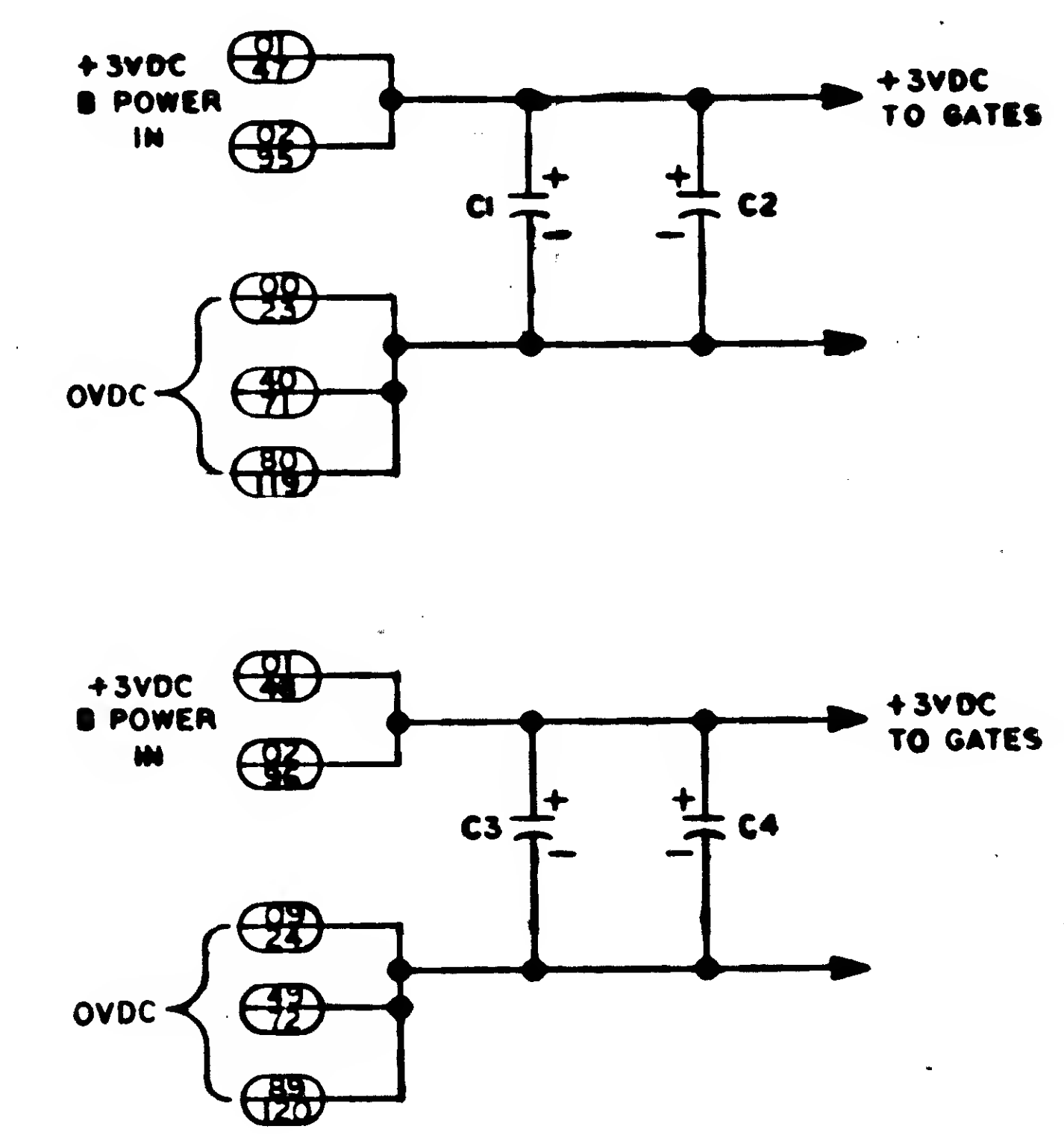
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FINO NO.
LIST OF MATERIALS			
INSTRUMENTATION LAB MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DRAWN BY: J. J. J. DATE: 10/1/65			
CHECKED BY: J. J. J. DATE: 10/1/65			
APPROVAL BY: J. J. J. DATE: 10/1/65			
NASA APPROVAL BY: J. J. J. DATE: 10/1/65			
MIT APPROVAL BY: J. J. J. DATE: 10/1/65			
CODE IDENT. NO. E		NASA DRAWING NO. 1006550	
SCALE		SHEET 1 OF 1	









REVISIONS - 2002 03644			
BYN	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TORR	02599	02/26/02 <i>WJ</i>
B	REVISED PER TORR	00566	02/26/02 <i>WJ</i>
C	REVISED PER TORR	00601	02/26/02 <i>WJ</i>
D	REVISED PER TORR	006234	02/26/02 <i>WJ</i>
E	REVISED PER TORR DR 00610 CHK 00610 APPD	00686	02/26/02 <i>WJ</i>
F	REVISED PER TORR DR 00610 CHK 00610	14276	02/26/02 <i>WJ</i>

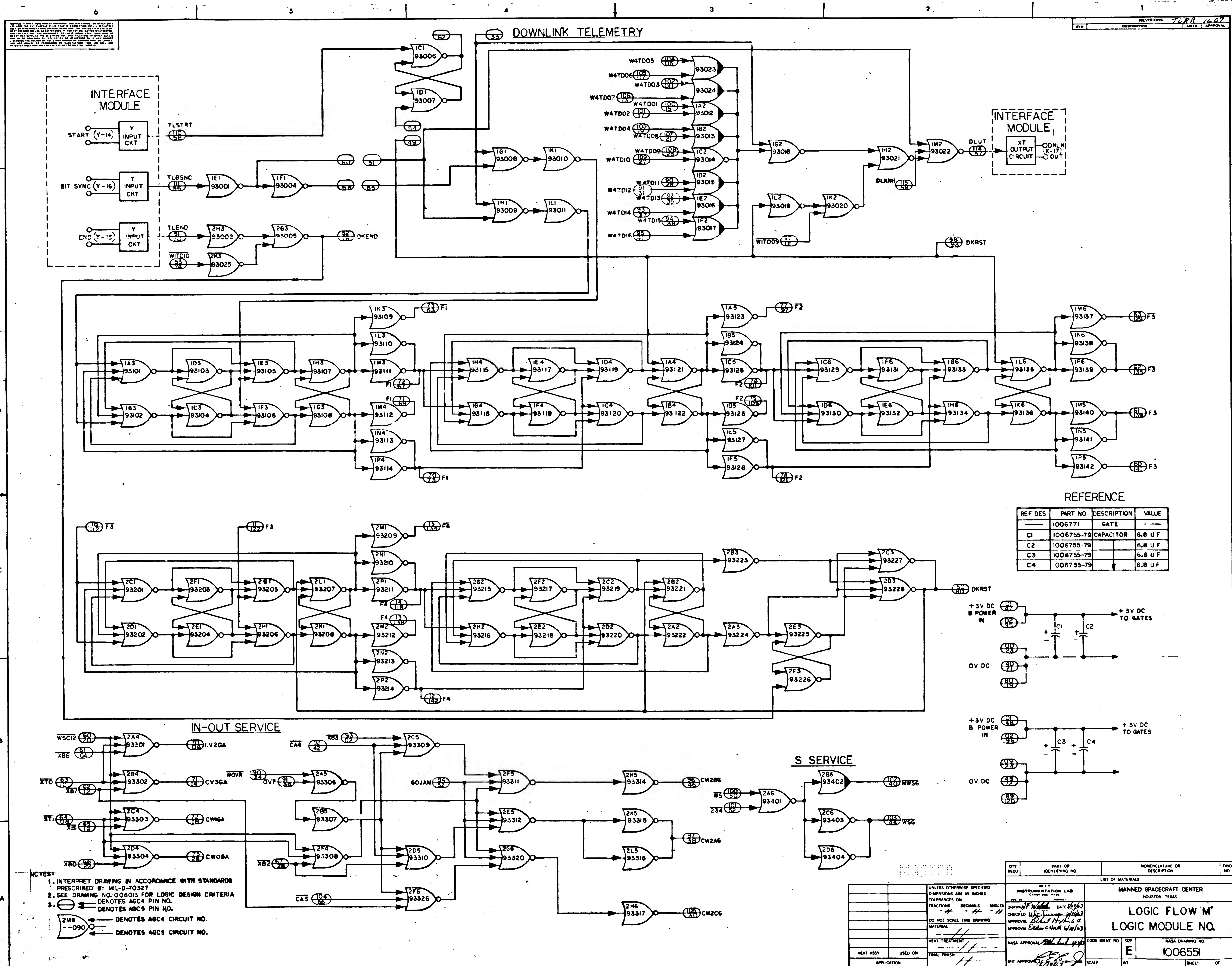
REFERENCE			
REF. DES.	PART NO.	DESCRIPTION	VALUE
—	100G771	GATE	—
C1	100G755-79	CAPACITOR	6.8 UF
C2	↓	↓	↓
C3	↓	↓	↓
C4	↓	↓	↓



NOTES:

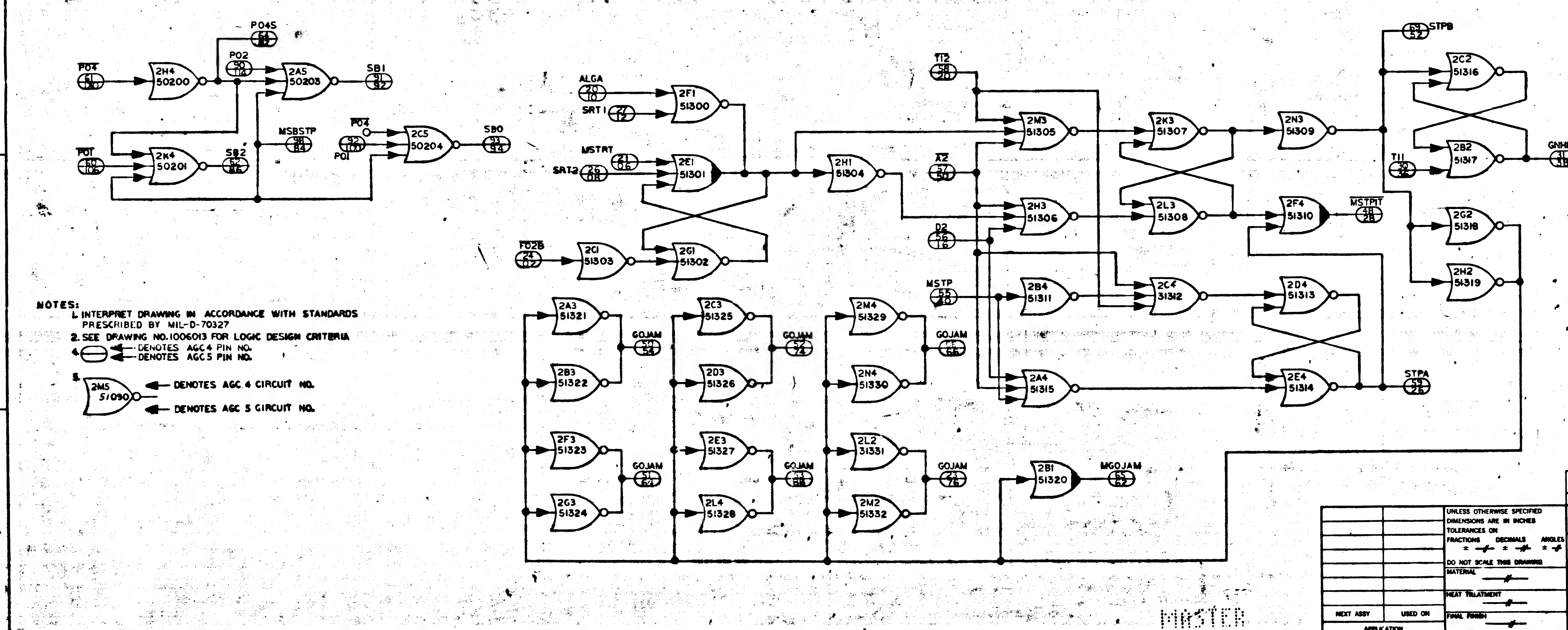
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. SEE DRAWING NO. 100G03 FOR LOGIC DESIGN CRITERIA
3.  DENOTES AGC 4 PIN NO.
 DENOTES AGC 5 PIN NO.
4.  DENOTES AGC 4 CIRCUIT NO.
 DENOTES AGC 5 CIRCUIT NO.

QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FPO NO.	
N I T INSTRUMENTATION LAB Customer Name				LIST OF MATERIALS			
ISS TO				CONTACT			
DRAWN <u>CB</u> BY DATE <u>2/26/65</u>				MANNED SPACECRAFT CENTER HOUSTON TEXAS			
CHECKED <u>WBS</u> <u>2/26/65</u>				LOGIC FLOW MODULE NO. A37			
APPROVAL <u>WBS</u> <u>2/26/65</u>							
DO NOT SCALE THIS DRAWING				CODE IDENT NO.			
MATERIAL <u>—</u>				SIZE			
HEAT TREATMENT <u>—</u>				NASA DRAWING NO.			
NEXT ASSY				E			
USED ON				1006550			
APPLICATION				SCALE <u>—</u> WT <u>—</u> SHEET <u>1</u> OF <u>1</u>			
FINAL FINISH <u>—</u>				NIT APPROVAL <u>WBS</u> <u>2/26/65</u>			

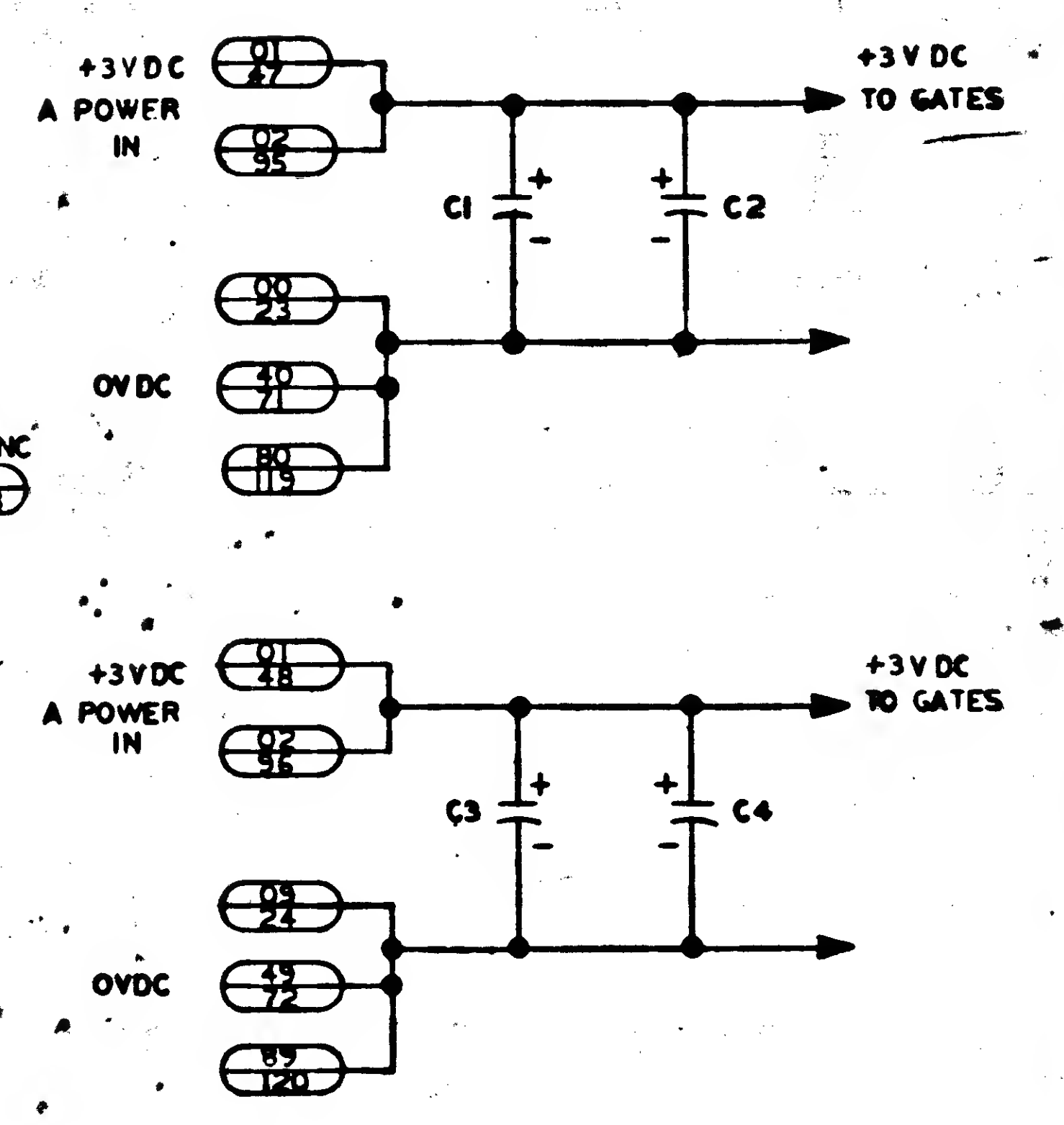


1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA
3. DENOTES AGC 4 PIN NO.
4. DENOTES AGC 5 PIN NO.

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA
3. DENOTES AGC 4 PIN NO.
4. DENOTES AGC 5 PIN NO.

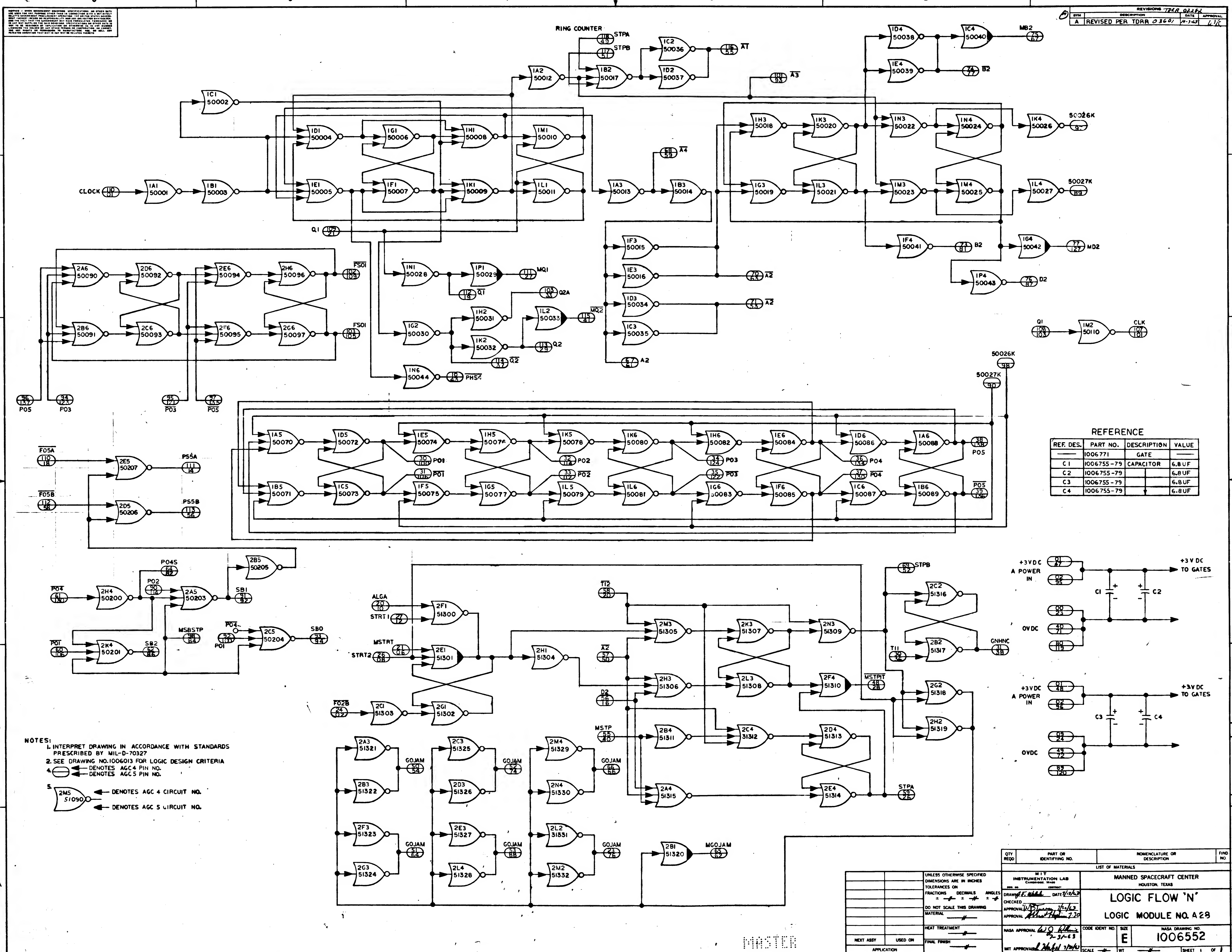


REFERENCE			
REF. DES.	PART NO.	DESCRIPTION	VALUE
C1	1006771	GATE	
C2	1006755-79	CAPACITOR	6.8UF
C3	1006755-79		6.8UF
C4	1006755-79		6.8UF

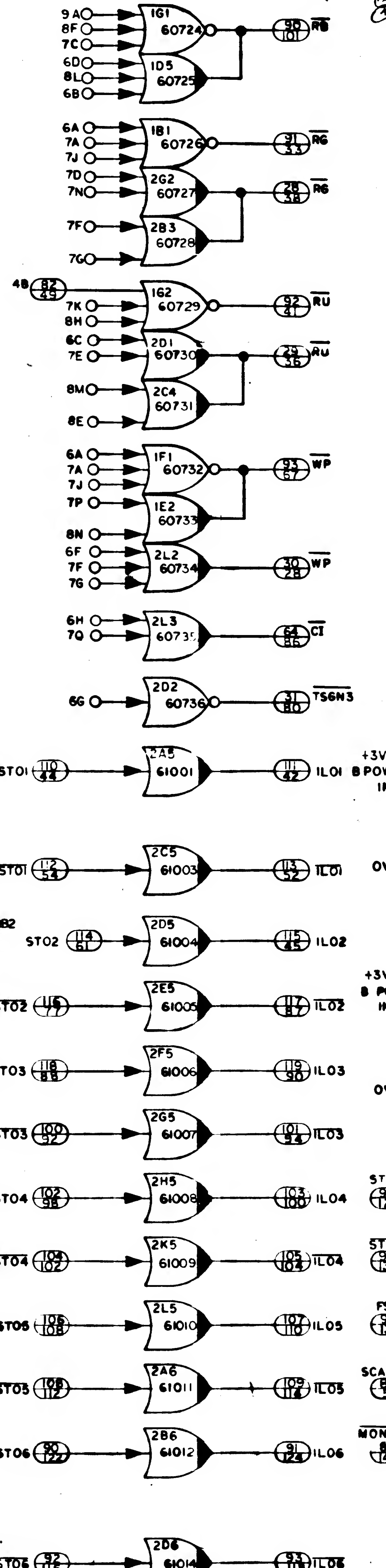
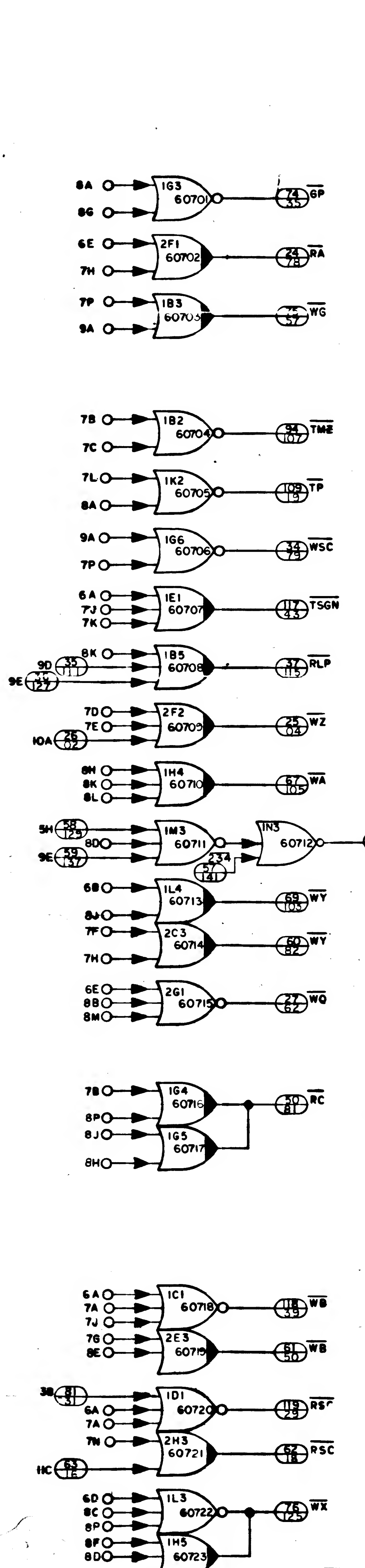
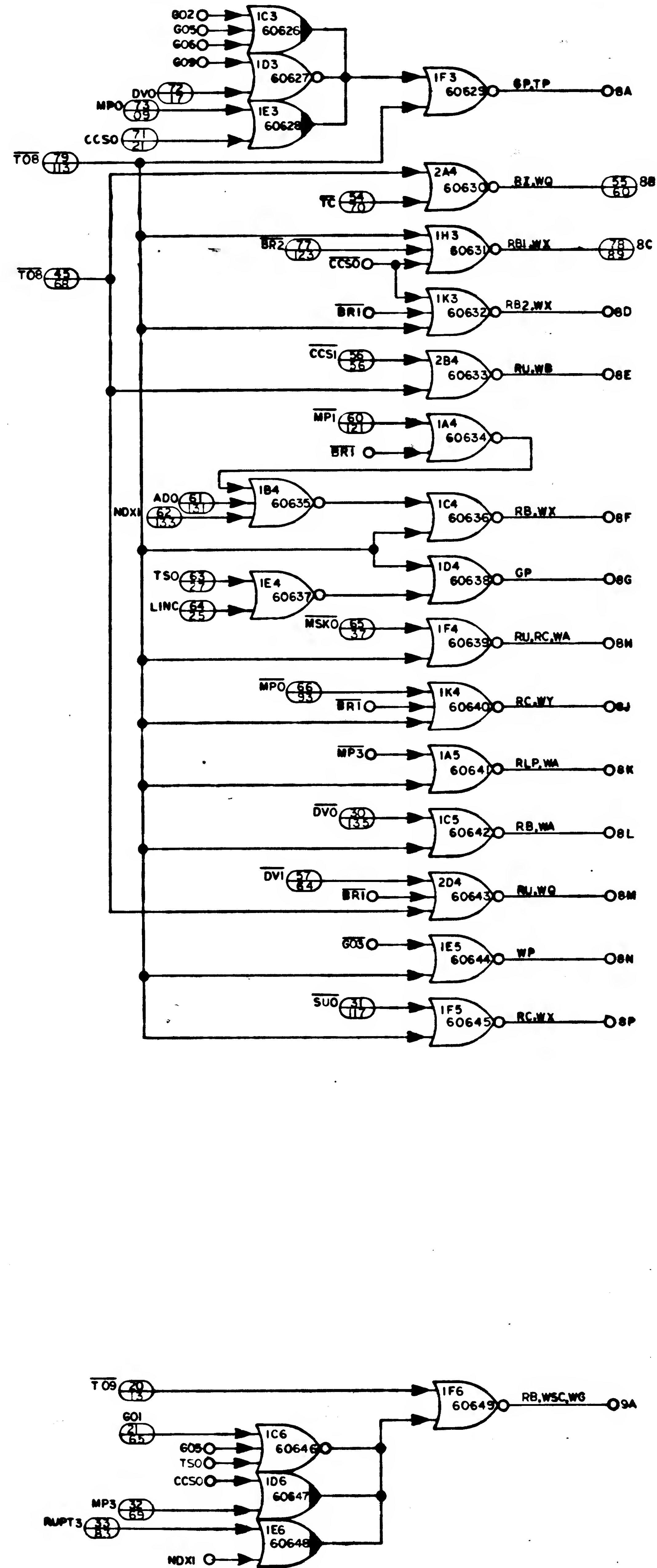
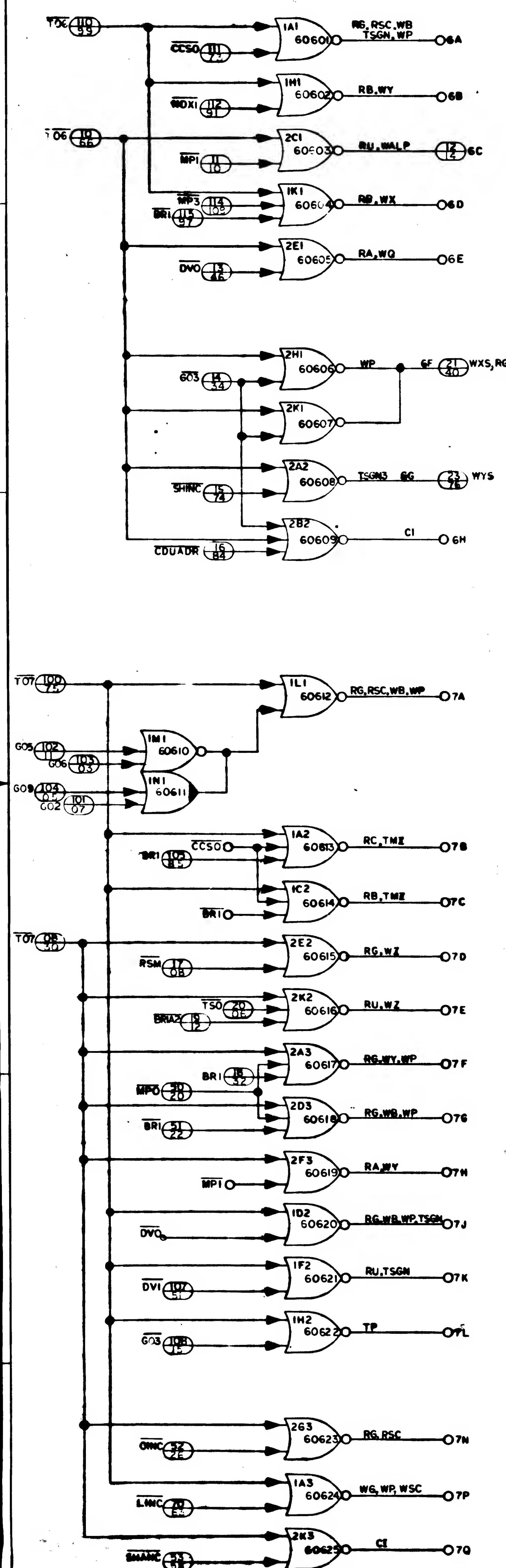


QTY	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FRQ
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
LOGIC FLOW 'N'			
LOGIC MODULE NO. A28			
NABA APPROVAL		CODE IDENT NO.	SIZE
E		1006552	
NABA APPROVAL		SCALE	WT
E			
SHEET 1 OF 1			

PHOTOGRAPHIC SCALE ONLY

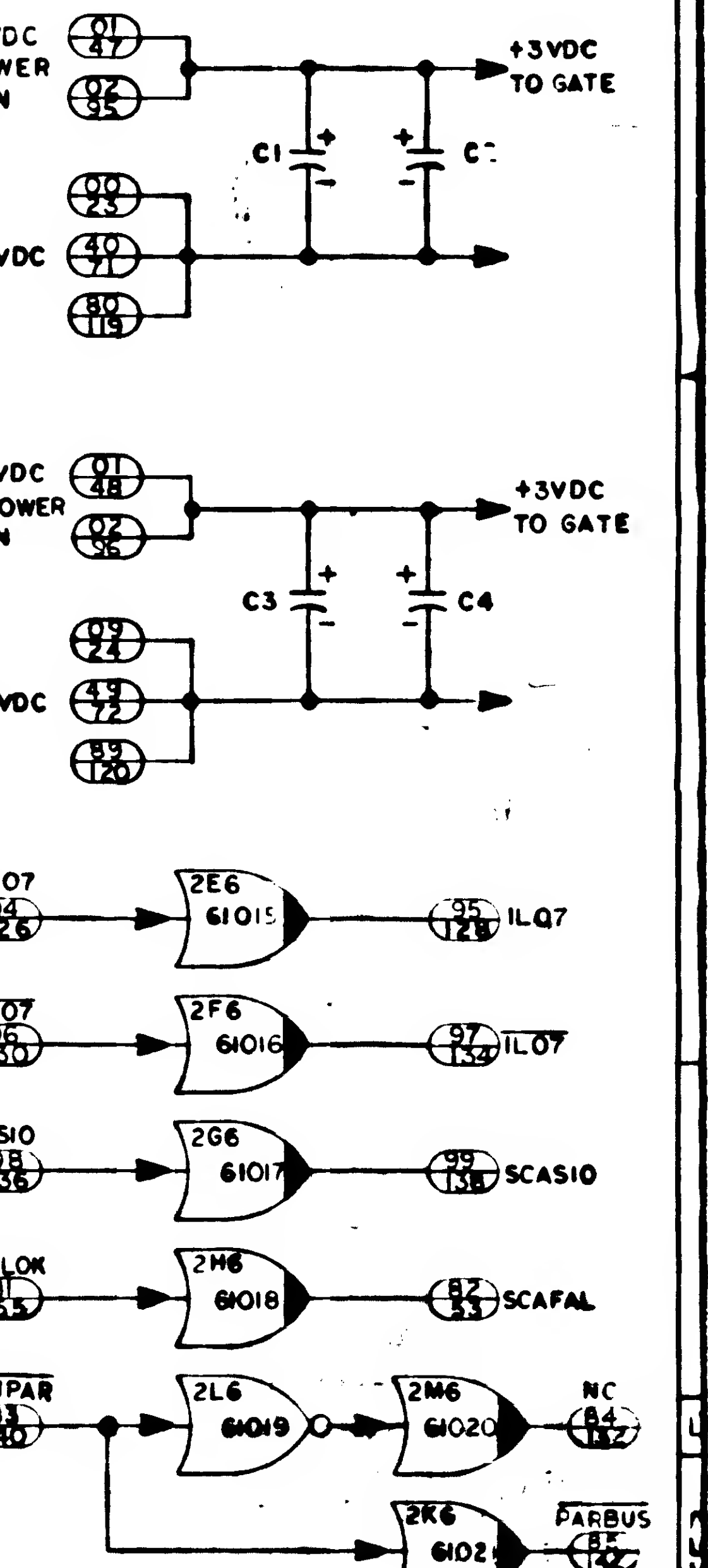


CONTROL PULSE 2







REVISIONS - PER 02262			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRA 03604	11-1-69	WLP
B	REVISED PER TDRA 04501	11-2-69	WLP
C	REVISED PER TDRA 04751	11-2-69	WLP
D	REVISED PER TDRA 05047	11-2-69	WLP
E	REVISED PER TDRA 07933 DRIVE CHK FOR APPO	11-2-69	WLP

REFERENCE			
REF DES	PART NO.	DESCRIPTION	VALUE
—	1006771	GATE	—
C1	1006755-79	CAPACITOR	5.0 U ²
C2			
C3			
C4			

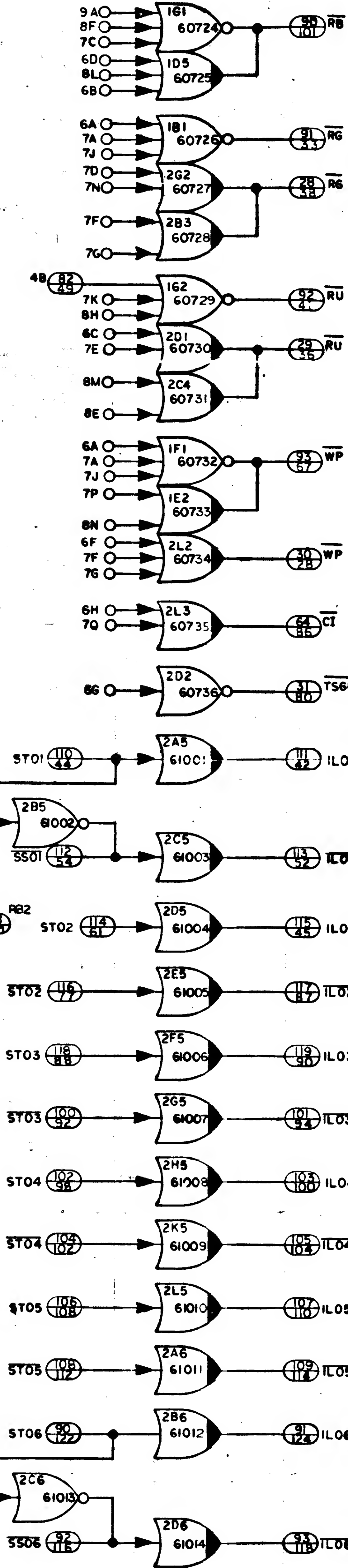
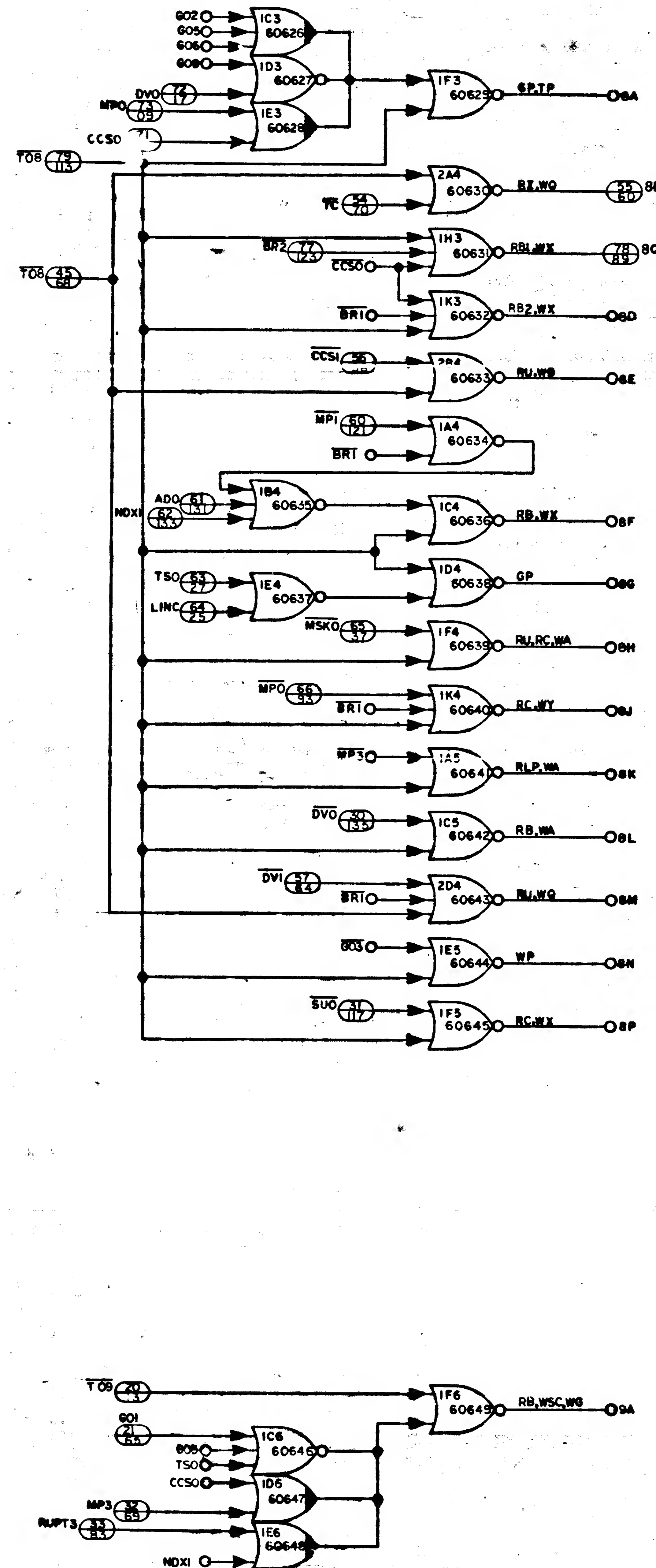


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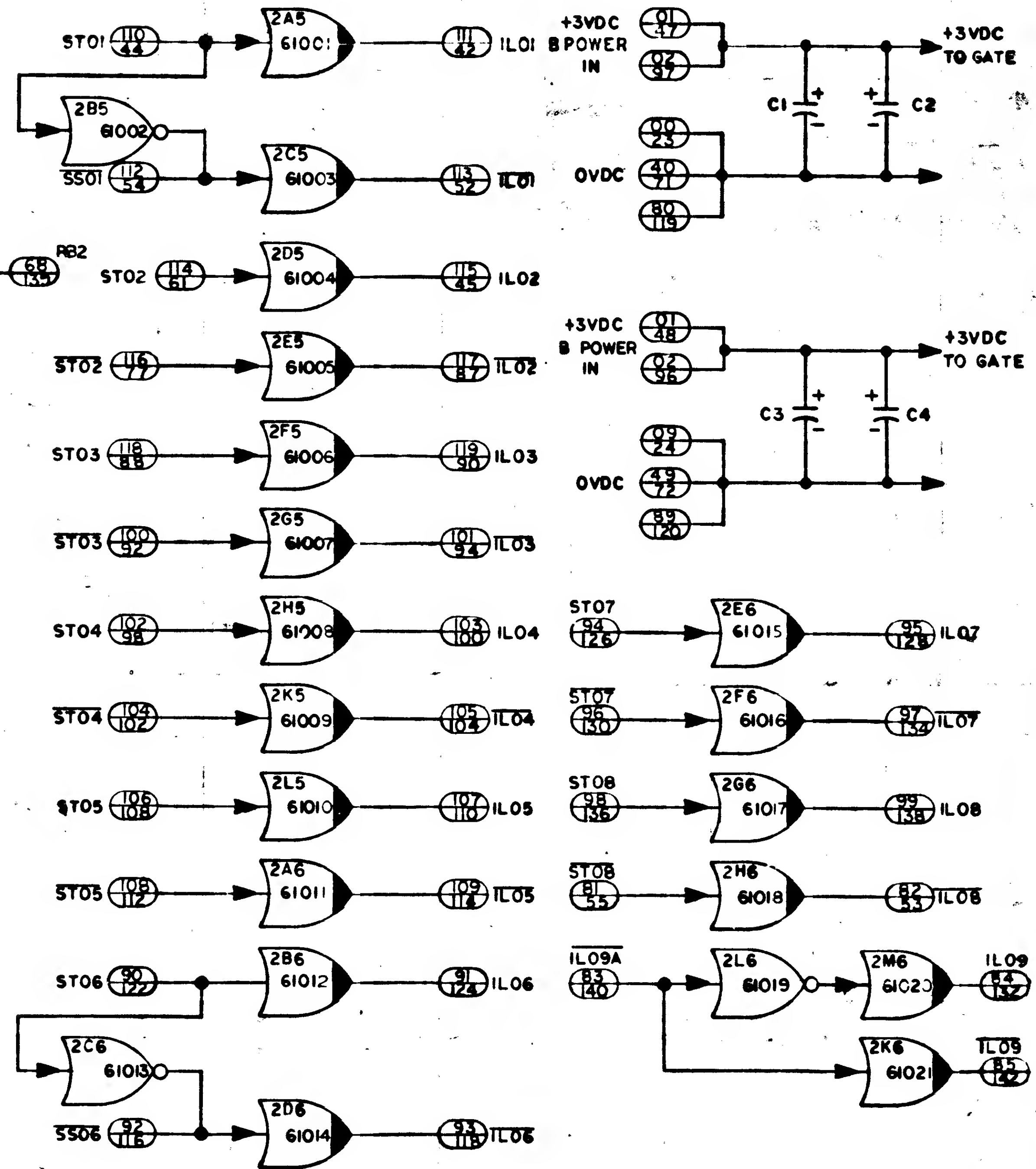
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CIRCUITS
3.  DENOTES AGC4 PIN NO.
 DENOTES AGC5 PIN NO.
4.  DENOTES AGC 4 CIRCUIT NO.
 DENOTES AGC 5 CIRCUIT NO.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON		QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		FIND NO
FRACTIONS DECIMALS		LIST OF MATERIALS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DO NOT SCALE THIS DRAWING MATERIAL		DIV INSTRUMENTATION LAB CANNON ROAD WPAFB OHIO		DRAWN <i>E. O'Connell</i> DATE <i>12-2-53</i> CHECKED <i>W. J. ...</i> APPROVAL <i>W. J. ...</i> APPROVAL <i>W. J. ...</i>		
HEAT TREATMENT		NASA APPROVAL		CODE IDENT NO		NASA DRAWING NO.
FINAL FINISH		<i>W. J. ...</i> <i>12-1-53</i>		— E —		1006553



REVISIONS			
BY	DESCRIPTION	DATE	APPROVAL



REFERENCE			
REF DES	PART NO.	DESCRIPTION	VALUE
—	1006771	GATE	—
C1	1006755-79	CAPACITOR	6.8UF
C2			
C3			
C4			

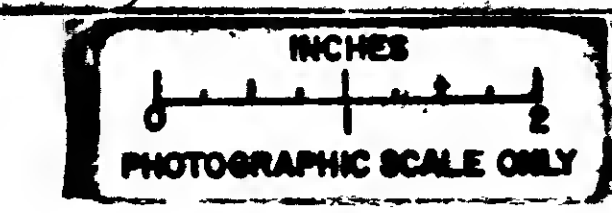


NOTES:

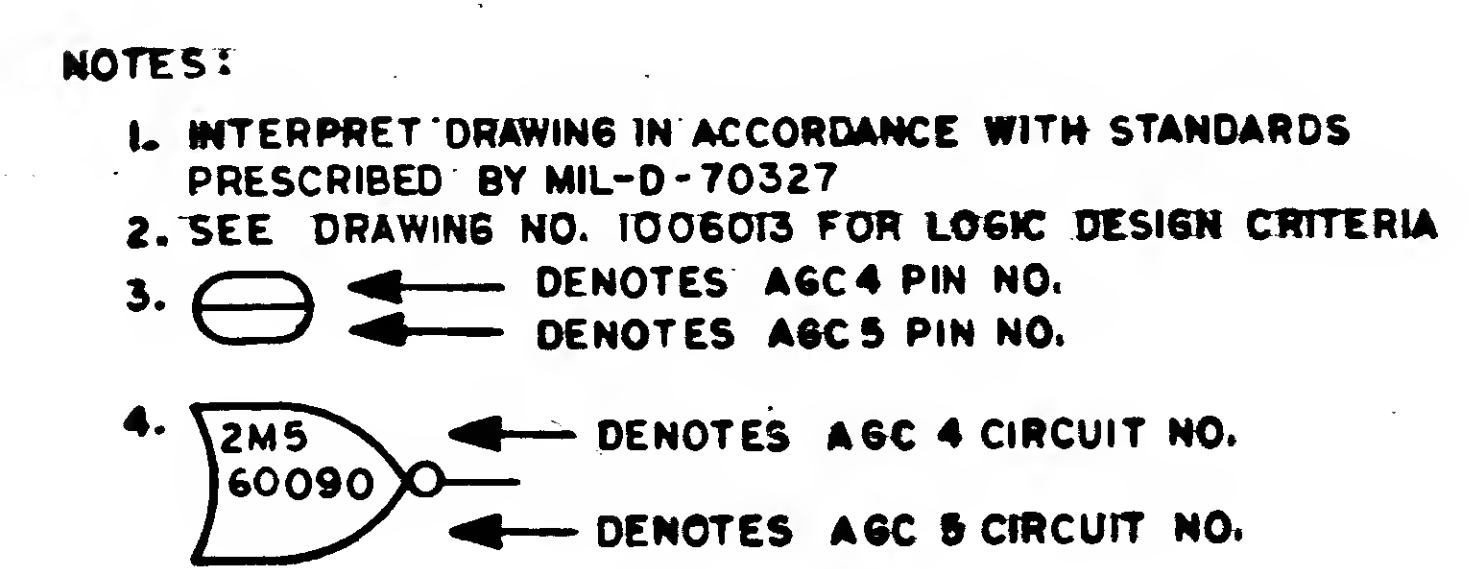
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. SEE DRAWING NO. 100005 FOR LOGIC DESIGN CRITERIA
3.  DENOTES AGC PIN NO.
DENOTES AGC 5 PIN NO.
4.  DENOTES AGC 4 CIRCUIT NO.
DENOTES AGC 5 CIRCUIT NO.

MASTER

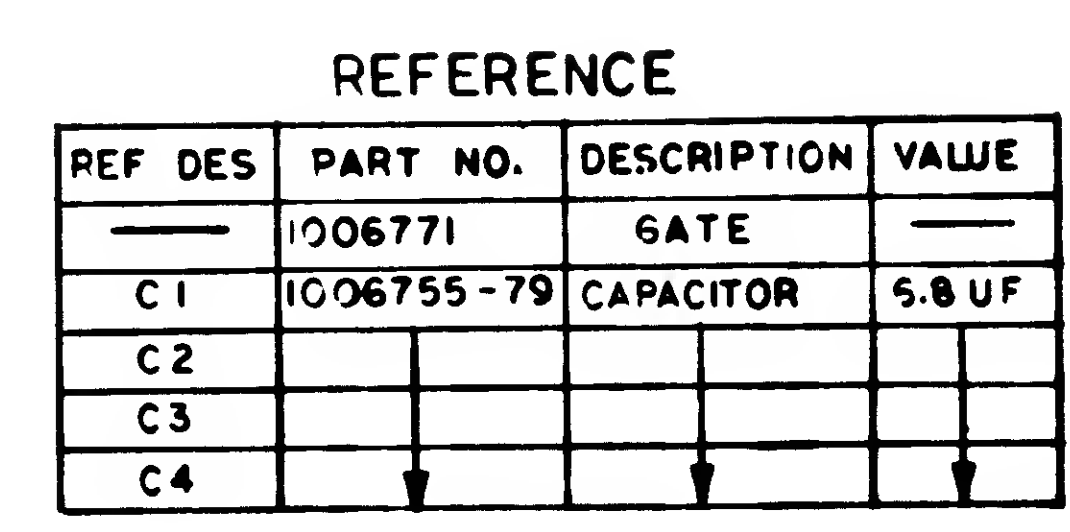
QTY REQ		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FINO NO.	
LIST OF MATERIALS							
4119 INSTRUMENTATION LAB Contract No. 1580441				MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
DATE <u>2-28-63</u> DRAWN <u>E. J. [signature]</u> DATE <u>2-28-63</u> CHECKED <u>[signature]</u> DATE <u>2-28-63</u> APPROVAL <u>[signature]</u> DATE <u>2-28-63</u>				LOGIC FLOW 'P' LOGIC MODULE NO. A22			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS $\pm .005$ ANGLES $\pm .005$ DO NOT SCALE THIS DRAWING MATERIAL <u>[signature]</u>				HEAT TREATMENT <u>[signature]</u> NEXT ASSY USED ON <u>[signature]</u> APPLICATION FINAL FRESH <u>[signature]</u>			
NASA APPROVAL <u>[signature]</u> DATE <u>2-28-63</u> MIT APPROVAL <u>[signature]</u> DATE <u>2-28-63</u>				CODE IDENT NO. <u>[signature]</u> SIZE <u>[signature]</u> NASA DRAWING NO. <u>1006553</u>			
SCALE <u>[signature]</u>				SHEET 1 OF 1			





REVISIONS <i>TPR 02252</i>				
SYM	DESCRIPTION	DATE	APPROVAL	
<i>A</i>	REVISED PER TDRR <i>03004</i>	<i>1-1-63</i>	<i>W.C.</i>	



REVISIONS 7/11 02282			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRA 03604	11-1-63	W
B	REVISED PER TDRA 04501	11-6-63	OK

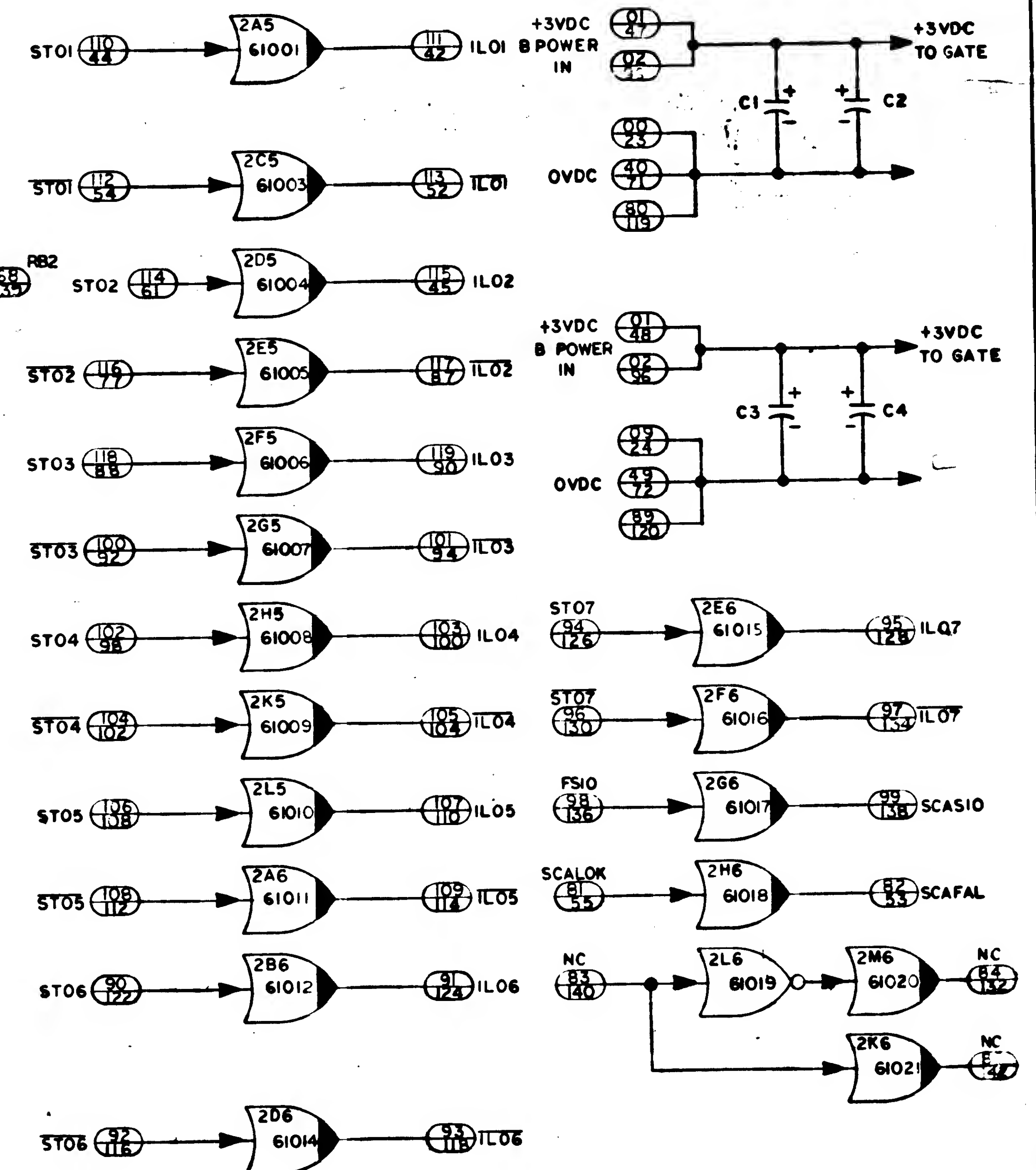


NOTES:



1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA
3.  ← DENOTES AGC 4 PIN NO.
← DENOTES AGC 5 PIN NO.
4.  ← DENOTES AGC 4 CIRCUIT NO.
← DENOTES AGC 5 CIRCUIT NO.

MASTER		QTY REQ		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FPO NO	
						LIST OF MATERIALS			
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES		M/T INSTRUMENTATION LAB CAMDEN, NJ REV NO CONTRACT		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
		DO NOT SCALE THIS DRAWING WATERL		DRAWN <i>E. Small</i> DATE <i>7-23-63</i> CHECKED APPROVAL <i>WBS</i> <i>7/26/63</i> APPROVAL <i>WBS</i> <i>7/26/63</i>		LOGIC FLOW 'P' LOGIC MODULE NO. A22			
		HEAT TREATMENT		NASA APPROVAL <i>WBS</i> <i>7-31-63</i>		CODE IDENT NO. SIZE		NASA DRAWING NO. - 1006553	
NEXT ASSY USED ON		FINAL FINISH		M/T APPROVAL <i>WBS</i> <i>7/26/63</i>		SCALE <i>1/2"</i>		WT SHEET 1 OF 1	
APPLICATION									

REVISIONS <i>TRA 022P2</i>			
SYN	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TORR <i>03604</i>	<i>11-3-63</i>	<i>WIK</i>
B	REVISED PER TORR <i>04501</i>	<i>11-6-63</i>	<i>WIK W.K.</i>
C	REVISED PER TORR <i>04752</i>	<i>11-10-63</i>	<i>WIK W.K.</i>

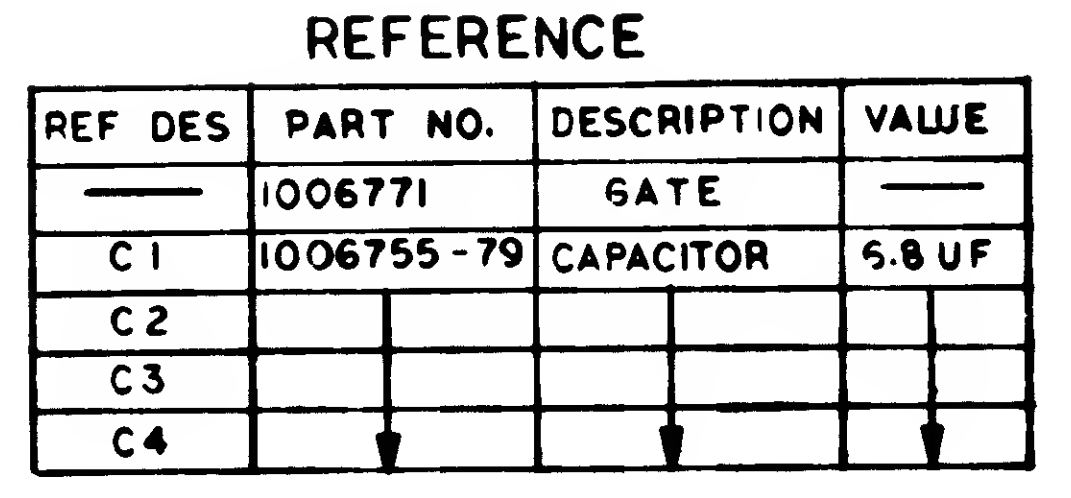


REFERENCE			
REF DES	PART NO.	DESCRIPTION	VALUE
—	1006771	SATE	—
C1	1006755 - 79	CAPACITOR	6.8 UF
C2			
C3			
C4			

- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. SEE DRAWING NO. 10601027 FOR LOGIC DESIGN CRITERIA
 3.  DENOTES AGC 4 PIN NO.
DENOTES AGC 5 PIN NO.
 4.  DENOTES AGC 4 CIRCUIT NO.
DENOTES AGC 5 CIRCUIT NO.

MASTER		QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
		N I T INSTRUMENTATION LAB CAMDEN, NJ		LIST OF MATERIALS		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAWN <i>E. Cantrell</i> DATE <i>9-2-63</i>		LOGIC FLOW P ^o LOGIC MODULE NO A22					
TOLERANCES ON FRACTIONS DECIMALS ANGLES		CHECKED <i>W.S. Anderson</i> DATE <i>7-4-63</i>							
DO NOT SCALE THIS DRAWING		APPROVAL <i>W.S. Anderson</i> DATE <i>7-4-63</i>							
MATERIAL <i>1/8" ALUMINUM</i>		NASA APPROVAL <i>W.S. Anderson</i> DATE <i>7-31-63</i>		CODE IDENT NO.		SIZE		NASA DRAWING NO. -	
HEAT TREATMENT <i>1/8" ALUMINUM</i>		MIT APPROVAL <i>W.S. Anderson</i> DATE <i>7-31-63</i>		SCALE <i>1/8" = 1"</i>		E		1006553	
NEXT ASSY USED ON				SHEET		1		OF 1	
APPLICATION									

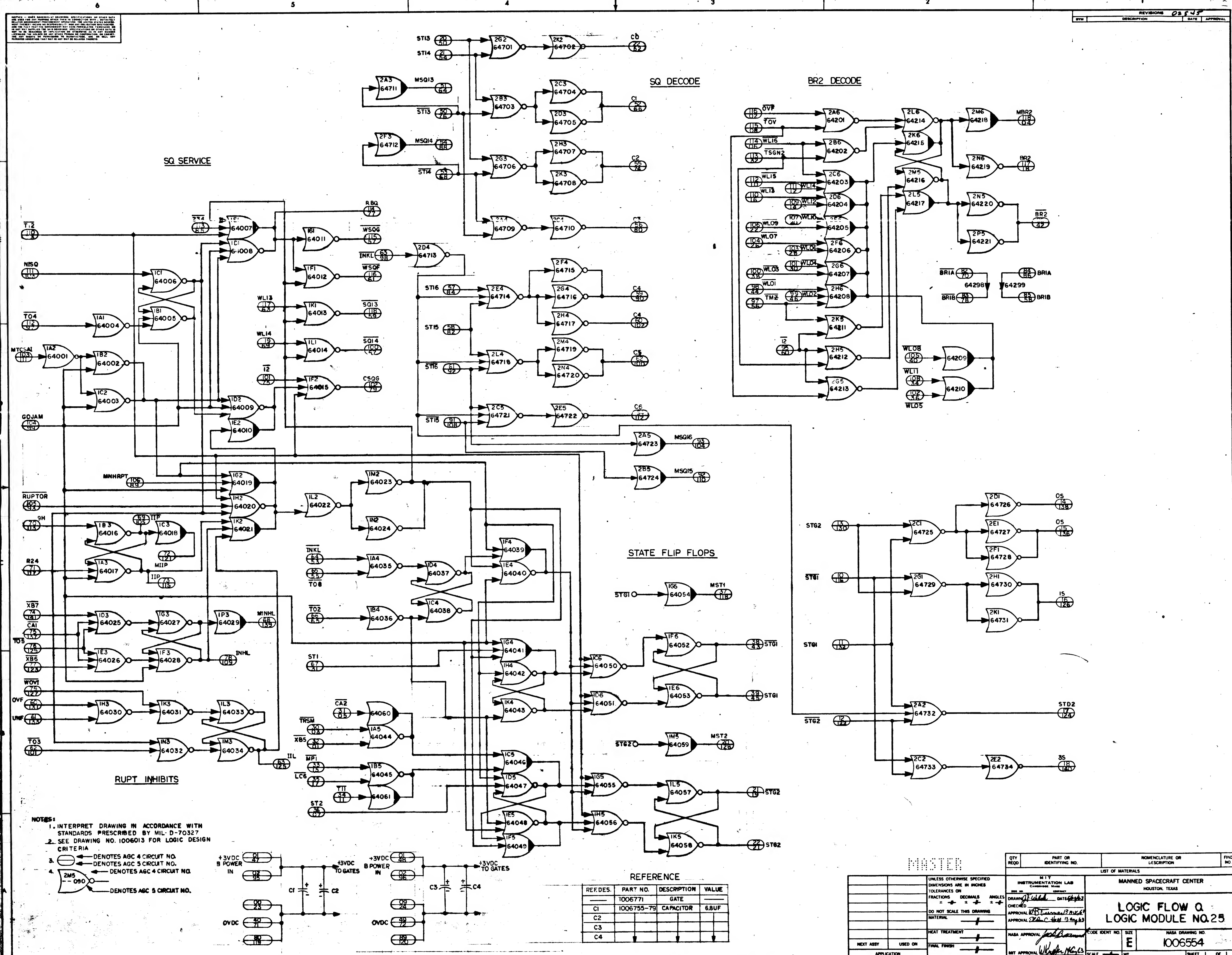
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TORR 03604	11-1-63	WKE
B	REVISED PER TORR 04501	11-6-63	ONE WKE
C	REVISED PER TORR 04752	11-14-63	ONE WKE
D	REVISED PER TORR 05047	11-26-63	ONE WKE



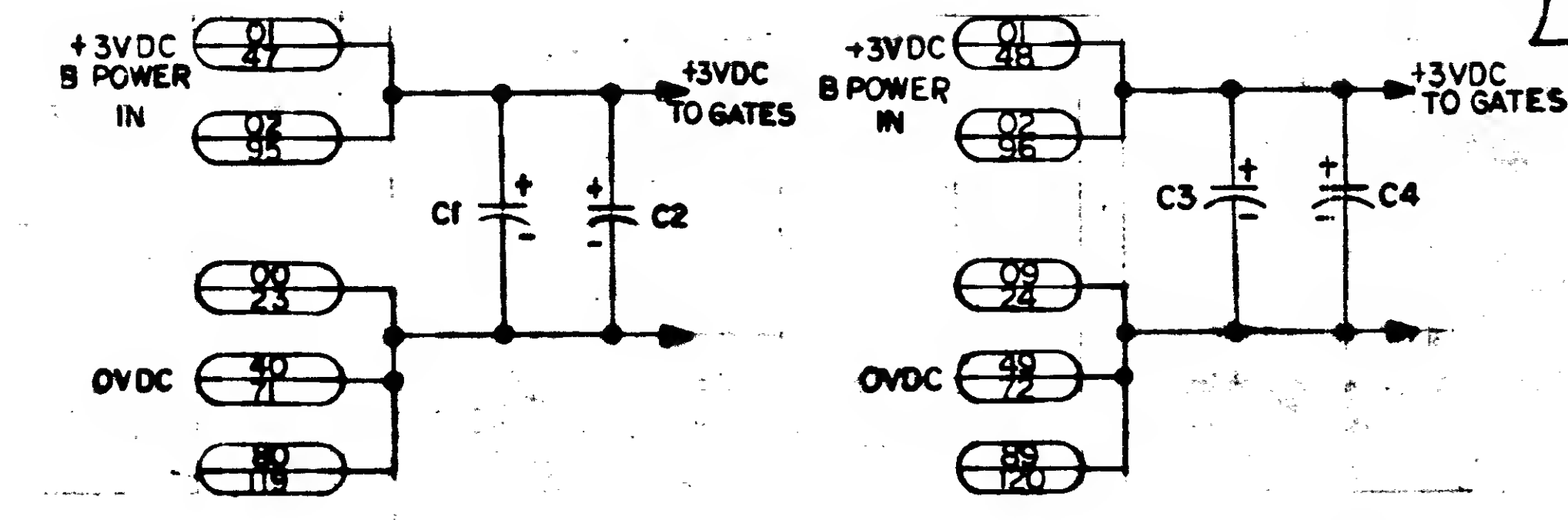
- | | | | | | |
|---|---------|--|----------------------------|---|---|
| <div style="text-align: center; font-size: 2em; font-weight: bold;">MASTER</div> | | QTY
REQD | PART OR
IDENTIFYING NO. | NOMENCLATURE OR
DESCRIPTION | FIND
NO. |
| | | LIST OF MATERIALS | | | |
| UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES

DO NOT SCALE THIS DRAWING
MATERIAL | | MIT
INSTRUMENTATION LAB
Cambridge, Mass.
DRAWN <u>E. Small</u> DATE <u>5-29-63</u>
CHECKED
APPROVAL <u>W. H. [Signature]</u> DATE <u>7-16-63</u>
APPROVAL <u>W. H. [Signature]</u> DATE <u>7-16-63</u> | | MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

<div style="text-align: center; font-size: 1.5em; font-weight: bold;">LOGIC FLOW 'P'</div> <div style="text-align: center; font-size: 1.5em; font-weight: bold;">LOGIC MODULE NO. A22</div> | |
| NEXT ASSY | USED ON | HEAT TREATMENT
FINAL FINISH | | NASA APPROVAL <u>W. H. [Signature]</u>
<u>7-31-63</u> | CODE IDENT NO. SIZE
— E |
| APPLICATION | | MIT APPROVAL <u>W. H. [Signature]</u> DATE <u>7/16/63</u> | | NASA DRAWING NO.
<div style="text-align: center; font-size: 1.5em; font-weight: bold;">1006553</div> | SCALE <u>1" = 1"</u> WT SHEET 1 OF 1 |



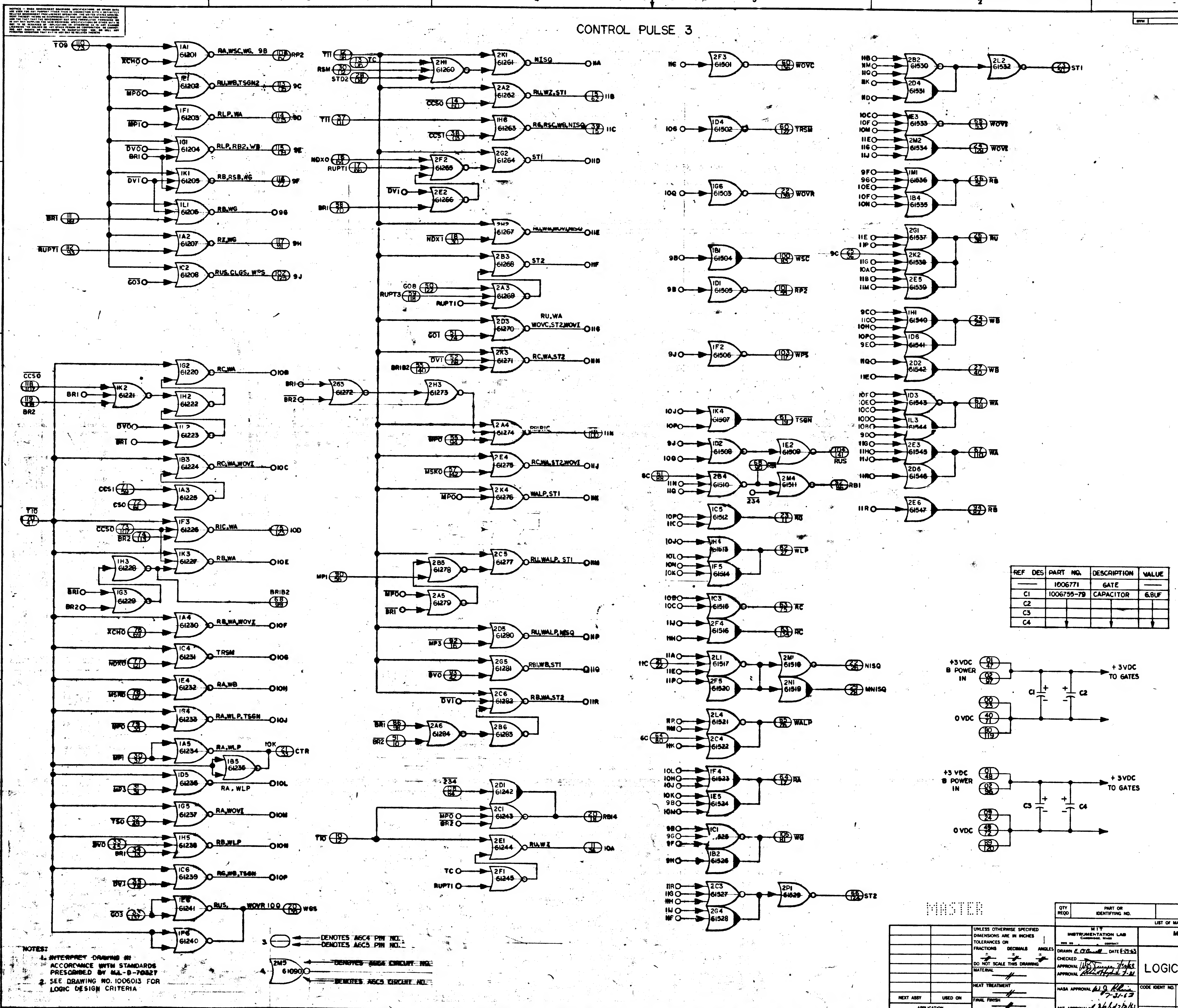
- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA
 3. (Symbol) DENOTES AGC 4 CIRCUIT NO.
 4. (Symbol) DENOTES AGC 5 CIRCUIT NO.
 5. (Symbol) DENOTES AGC 6 CIRCUIT NO.



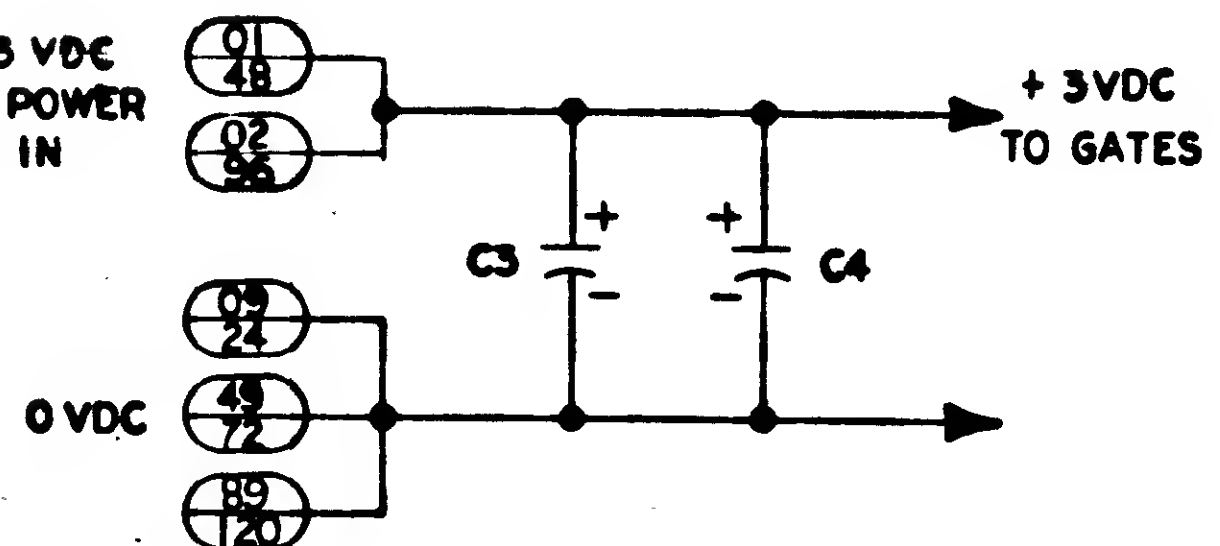
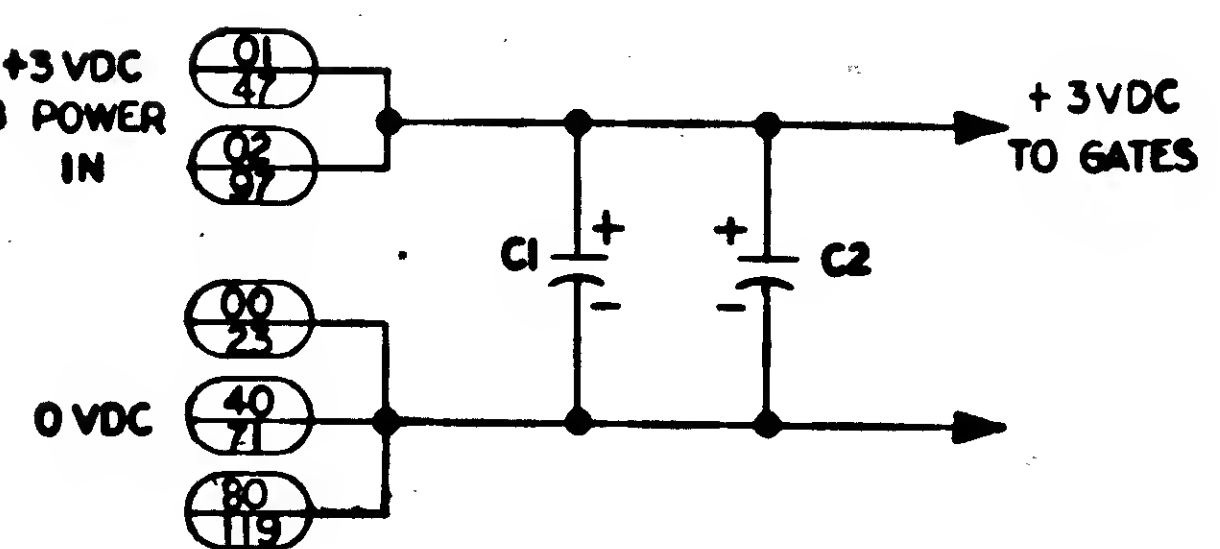
REF. DES.	PART NO.	DESCRIPTION	VALUE
C1	1006771	GATE	
C2	1006755-79	CAPACITOR	6.8UF
C3			
C4			

MASTER		QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES		DO NOT SCALE THIS DRAWING MATERIAL		HEAT TREATMENT		USED ON		FINAL FINISH	
APPLICATION		SCALE		DATE		APPROVAL		SIGNATURE	
MANNED SPACECRAFT CENTER HOUSTON, TEXAS		LOGIC FLOW Q LOGIC MODULE NO. 25		CODE IDENT NO. 1006554		SIZE E		SHEET 1 OF 1	

CONTROL PULSE 3



REF DES	PART NO.	DESCRIPTION	VALUE
—	1006771	GATE	—
C1	1006755-79	CAPACITOR	6.8UF
C2			
C3			
C4			

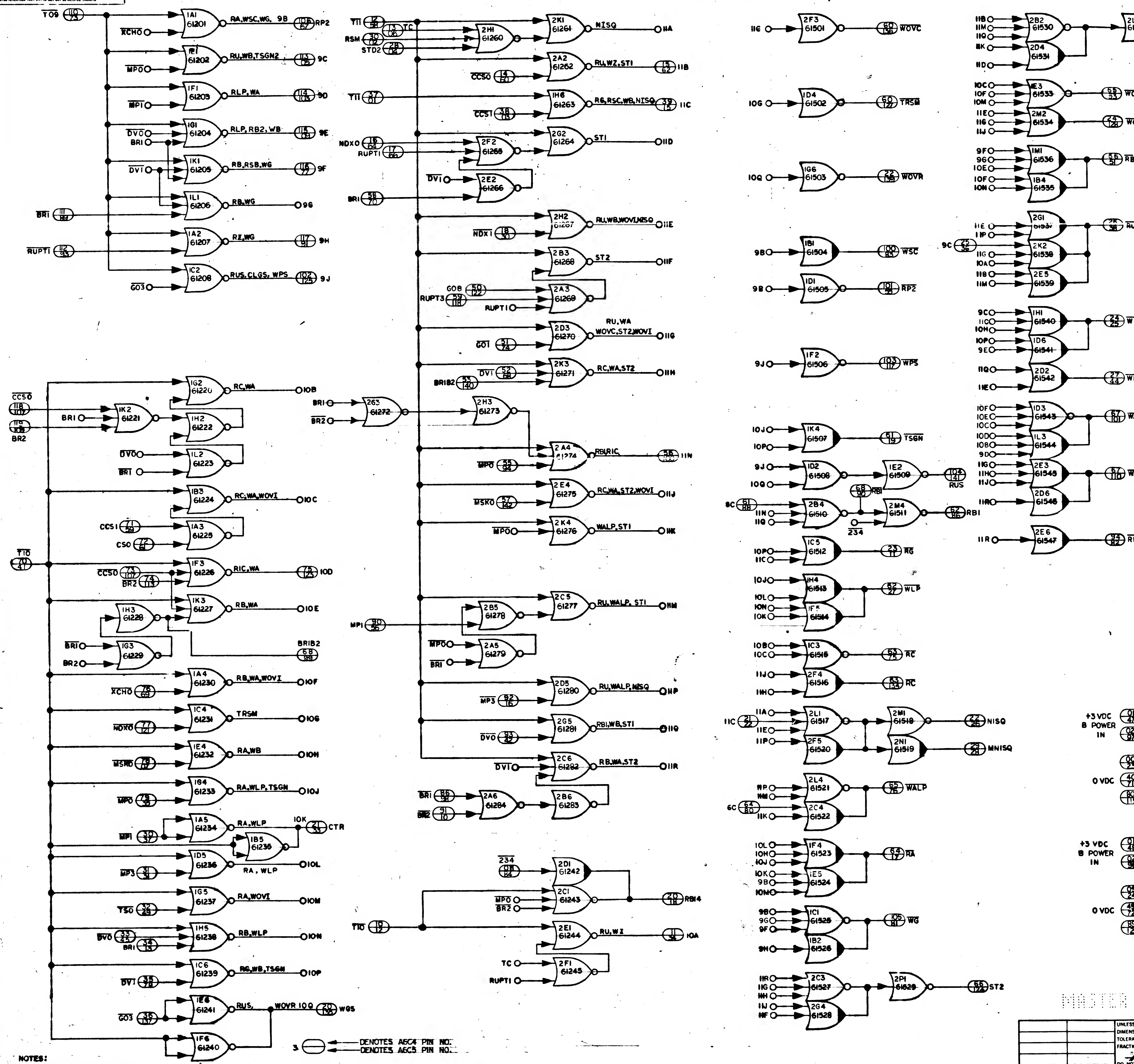


MASTER

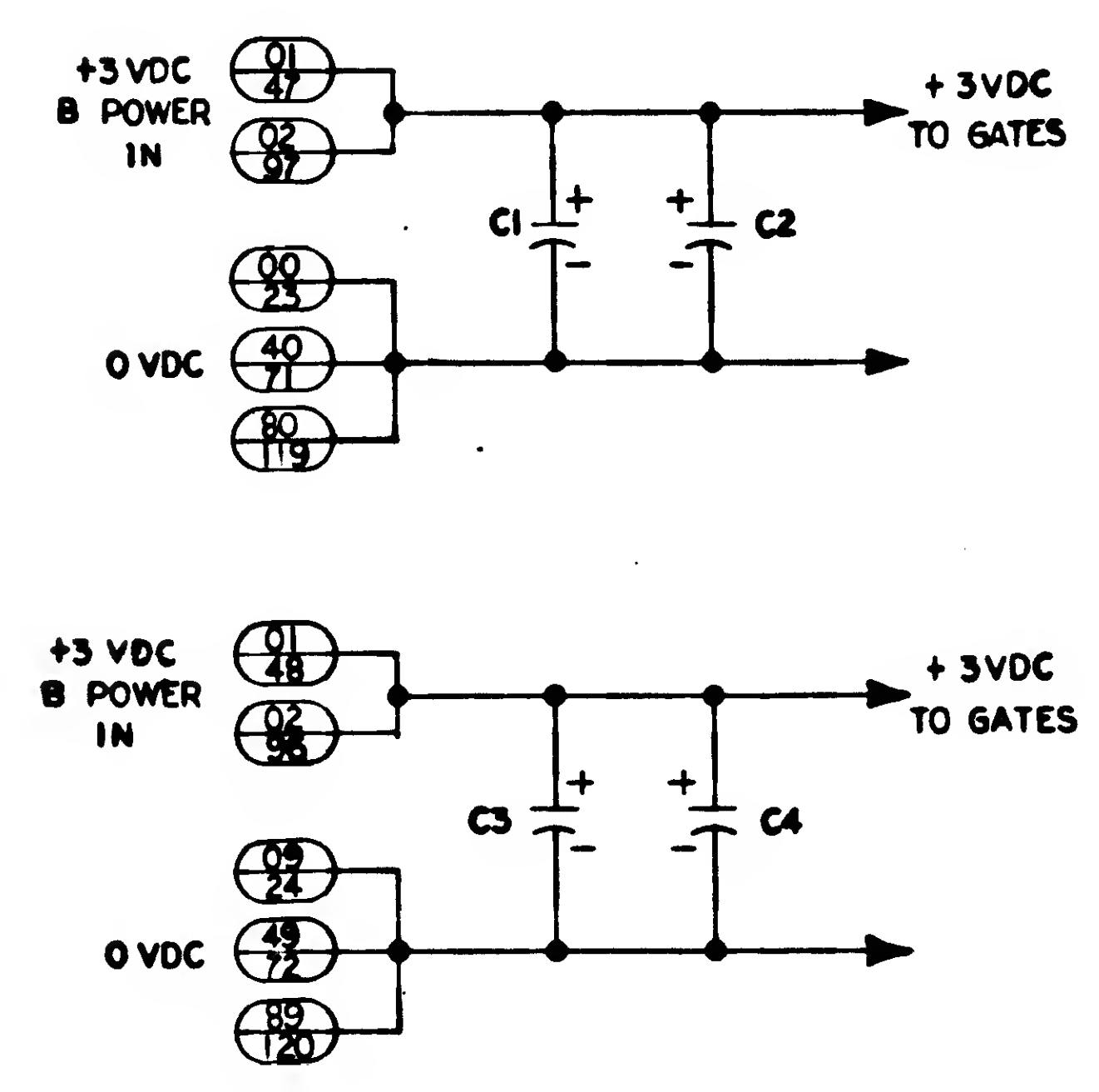
<p>MASTER</p>		<p>QTY REQD PART OR IDENTIFYING NO.</p>		<p>NOMENCLATURE OR DESCRIPTION</p>		<p>FIND NO.</p>	
		<p>LIST OF MATERIALS</p>					
		<p>DATE INSTRUMENTATION LAB DRAWN BY <u>CD</u> DATE <u>8-25-63</u></p>		<p>MANNED SPACECRAFT CENTER HOUSTON, TEXAS</p>			
<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES</p>		<p>CHECKED APPROVAL <u>[Signature]</u> APPROVAL <u>[Signature]</u></p>		<p>LOGIC FLOW'R LOGIC MODULE NO. A24</p>			
<p>DO NOT SCALE THIS DRAWING MATERIAL</p>		<p>HEAT TREATMENT FINAL FINISH</p>		<p>NASA DRAWING NO. <u>610-16</u> E NESA APPROVAL <u>[Signature]</u> CODE IDENT NO. <u>7-5-63</u> <u>136102641</u></p>			
<p>NEXT ASSY USED ON</p>				<p>NASA DRAWING NO. 1006555</p>			

CONTROL PULSE 3

NOTES: 1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. 2. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA.

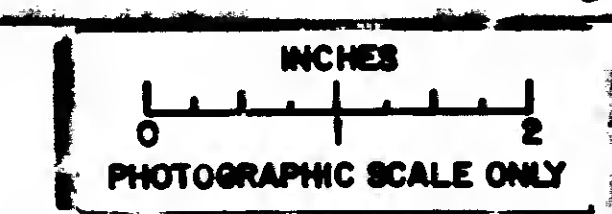


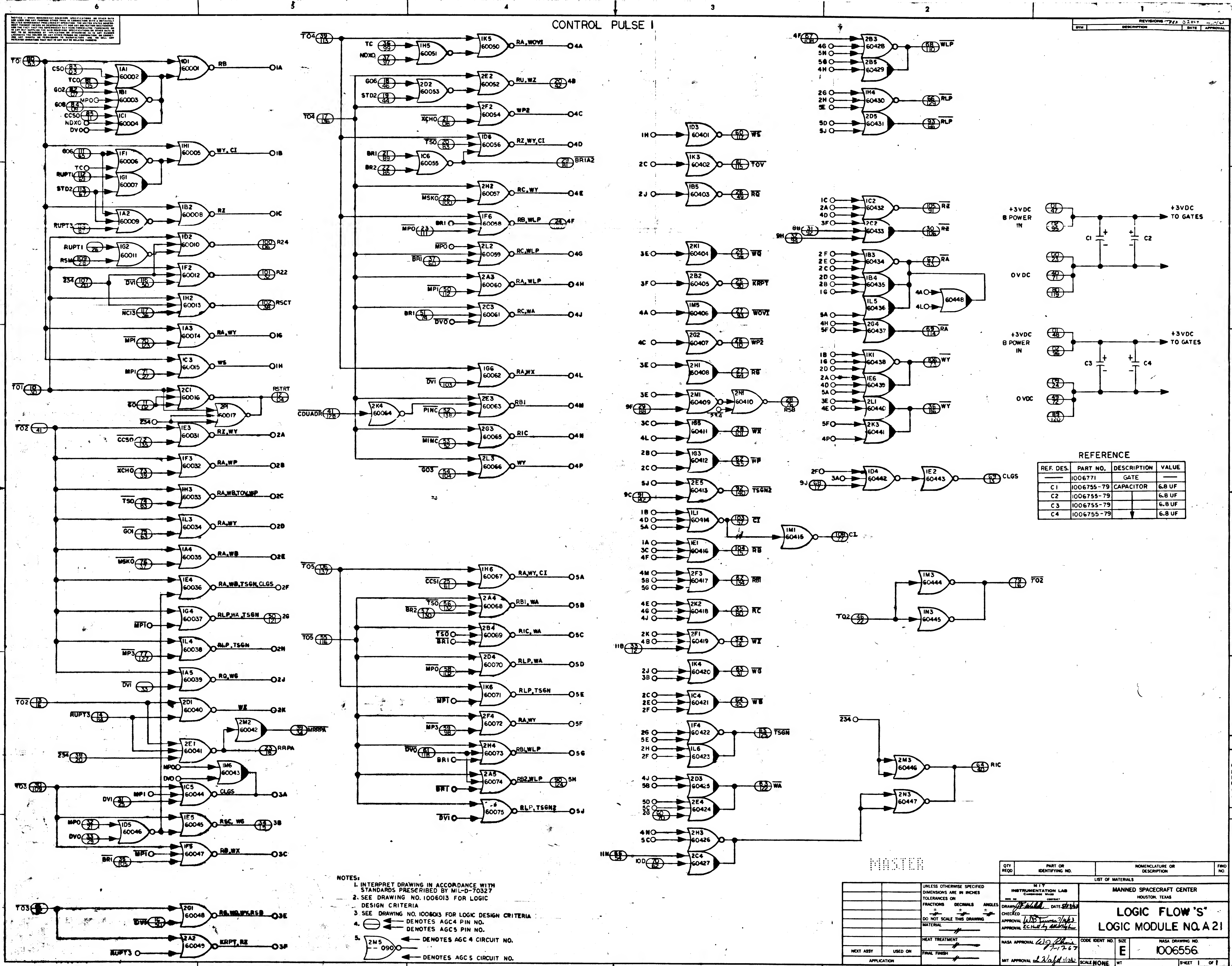
REF	DES	PART NO.	DESCRIPTION	VALUE
C1	1006771	GATE		
C2	1006755-79	CAPACITOR		6.8UF
C3				
C4				



MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	PHOTO NO.
INSTRUMENTATION LAB MANNED SPACECRAFT CENTER HOUSTON, TEXAS LOGIC FLOW'R LOGIC MODULE NO. A 24 DATE: 10-1-63 DRAWN: J. J. JONES CHECKED: J. J. JONES APPROVAL: J. J. JONES NASA APPROVAL: J. J. JONES DATE: 10-1-63 CODE IDENT NO.: E 1006555 SCALE: 1/2" = 1" SHEET: 1 OF 1			

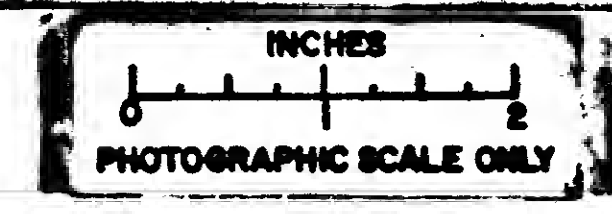


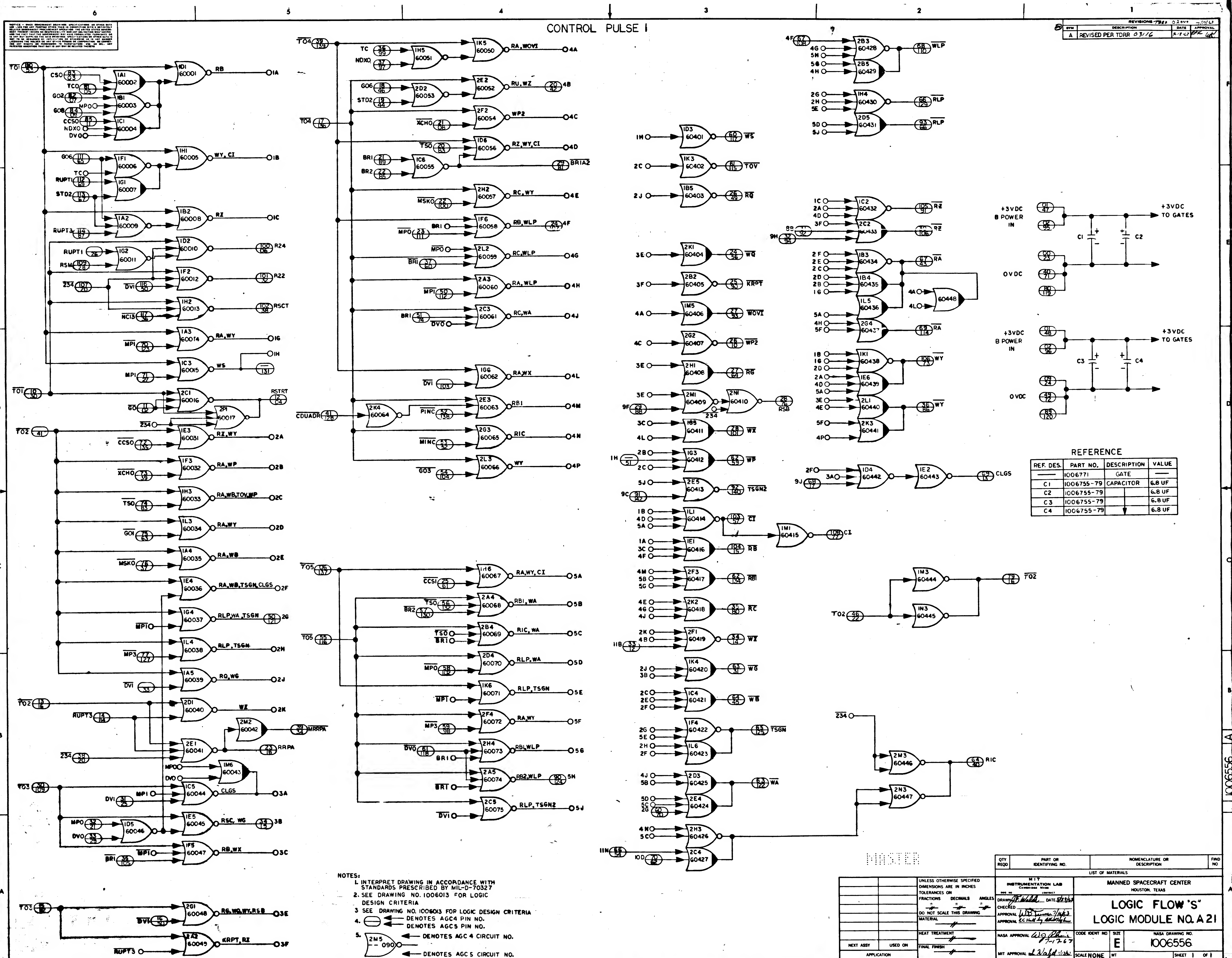


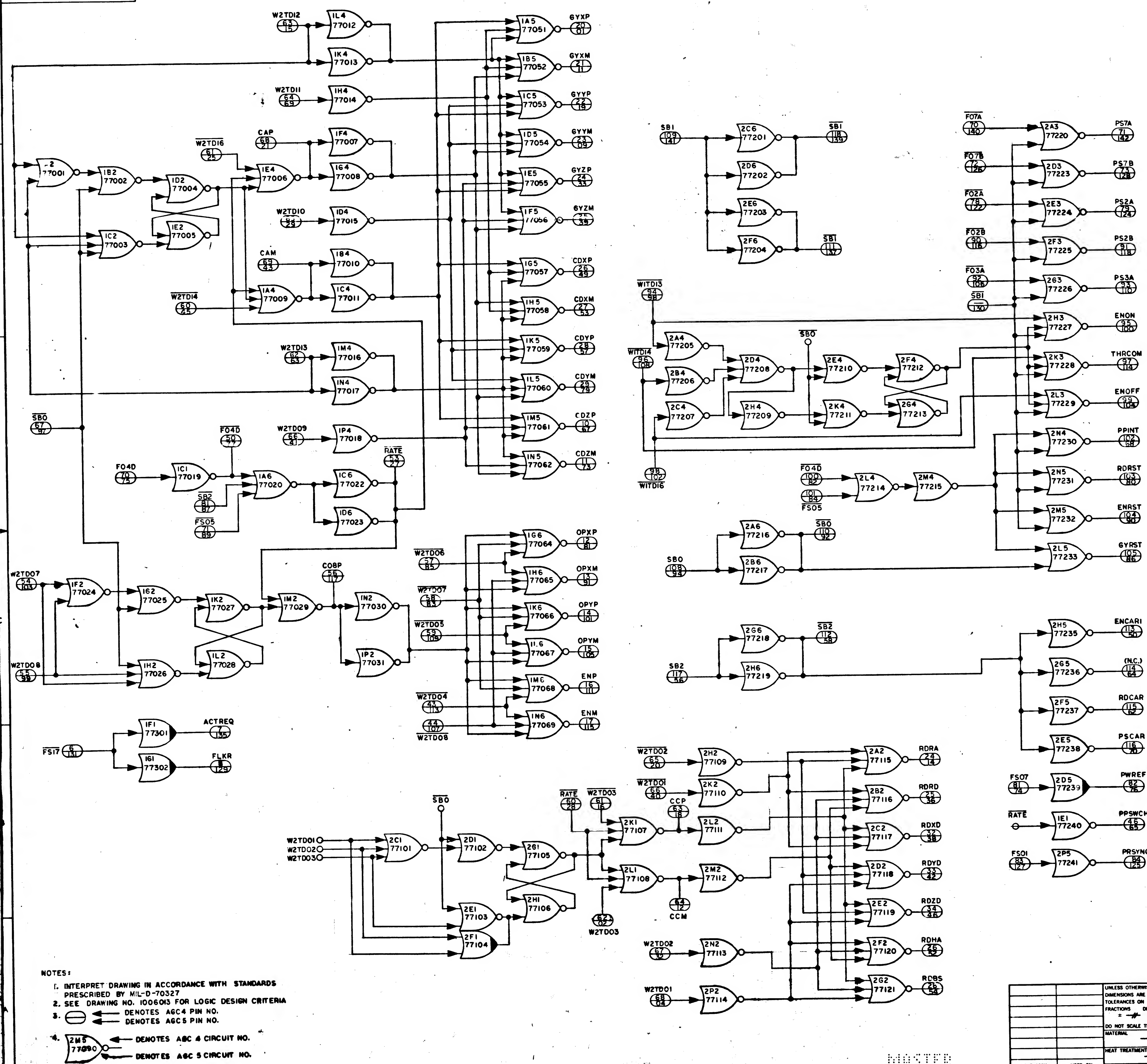
- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-STD-2000.
 2. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA.
 3. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA.
 4. DENOTES AGC 4 PIN NO.
 5. DENOTES AGC 5 PIN NO.

REFERENCE			
REF. DES.	PART NO.	DESCRIPTION	VALUE
C1	1006755-79	CAPACITOR	6.8 UF
C2	1006755-79		6.8 UF
C3	1006755-79		6.8 UF
C4	1006755-79		6.8 UF

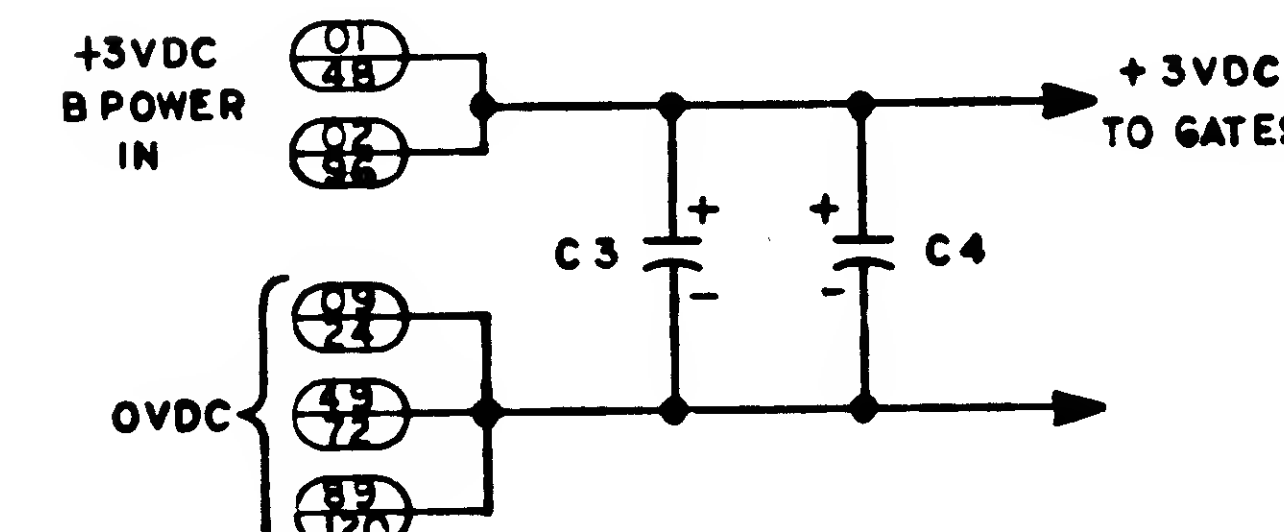
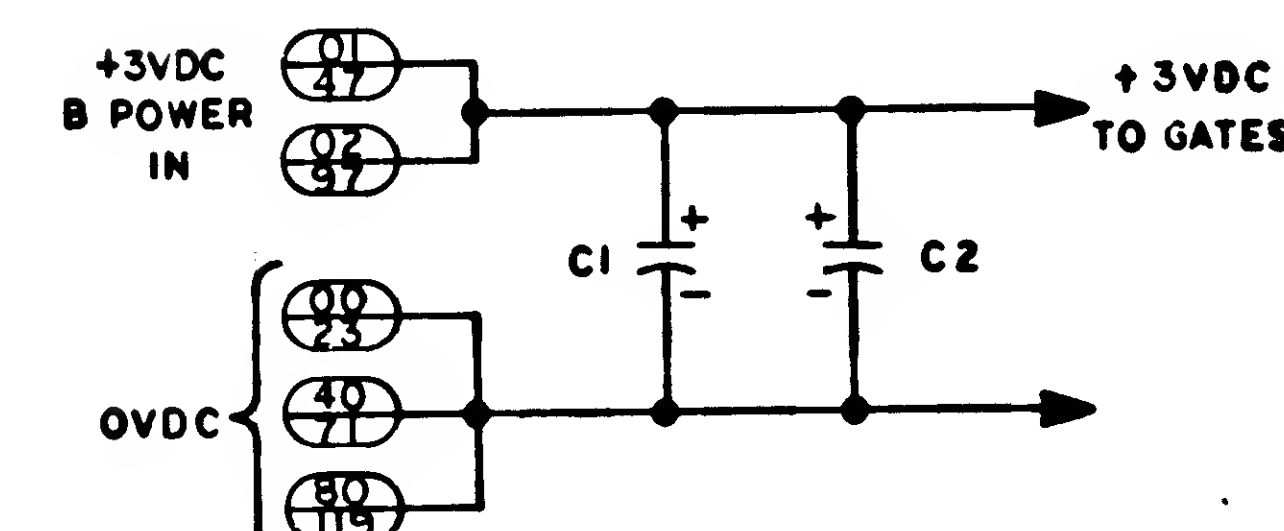
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FINO NO.
LIST OF MATERIALS			
INSTRUMENTATION LAB			
MANNED SPACECRAFT CENTER			
HOUSTON, TEXAS			
LOGIC FLOW'S			
LOGIC MODULE NQ.A.21			
E 1006556			
SCALE NONE			
SHEET 1 OF 1			









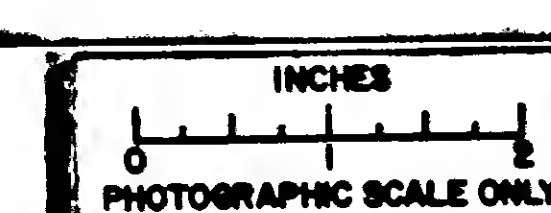
REFERENCE			
REF. DES.	PART NO.	DESCRIPTION	VALUE
—	10J6771	GATE	—
C 1	1006755-79	CAPACITOR	6.8 U
C 2			
C 3			
C 4			



- NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. SEE DRAWING NO. 1060613 FOR LOGIC DESIGN CRITERIA
 3. 
 - ← DENOTES AGC4 PIN NO.
 - ← DENOTES AGC5 PIN NO.
 4. 
 - ← DENOTES ABC & CIRCUIT NO.
 - ← DENOTES ABC & CIRCUIT NO.

[illegible]

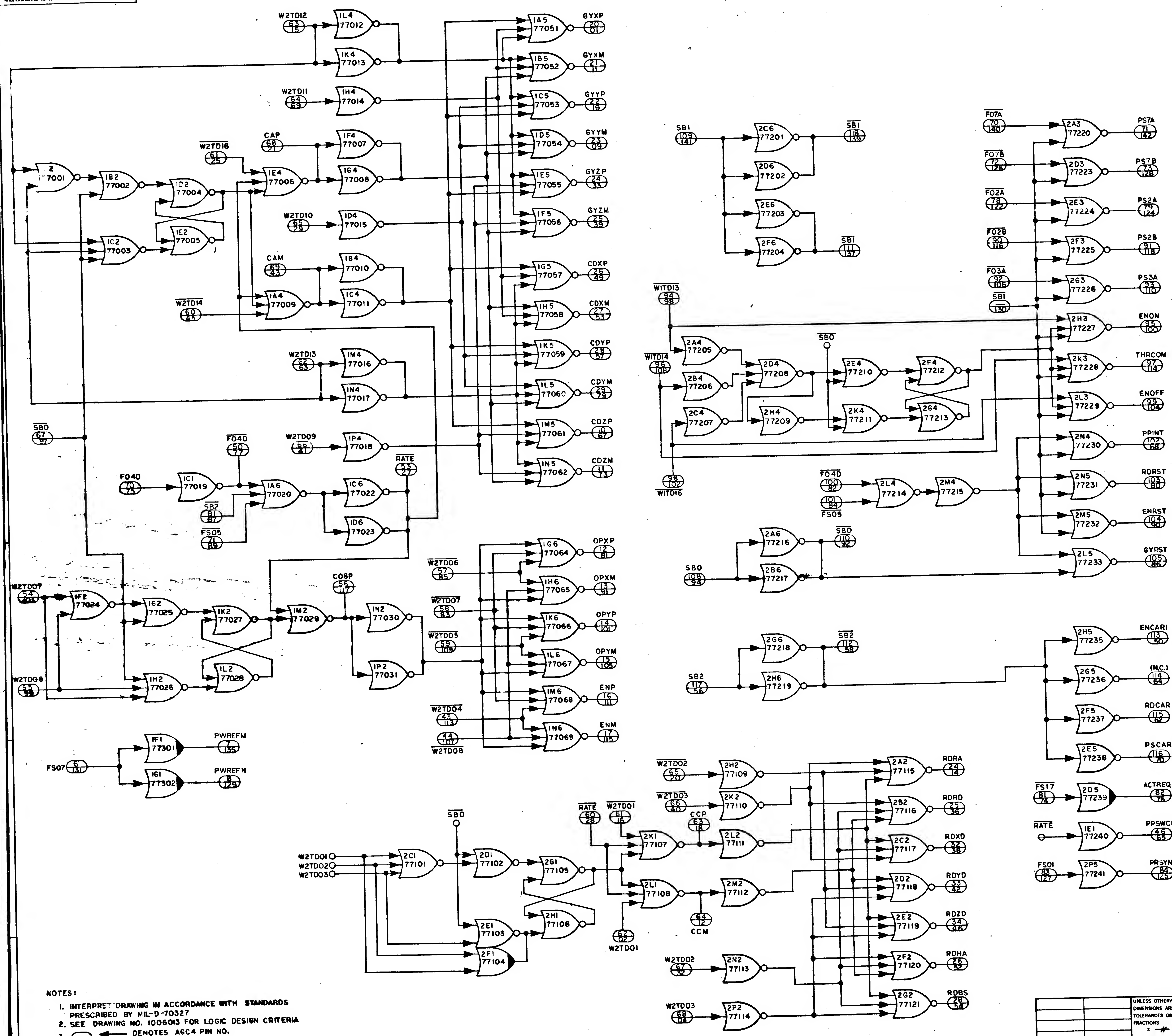
POSTER



NOTICE - WHEN GOVERNMENT DRAWINGS SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFENSE CONTRACT, THE USER SHALL BE RESPONSIBLE FOR OBTAINING THE STATUS AND DETERMINE THE BEST THESE DRAWINGS OR SPECIFICATIONS ARE AND ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED RECOMMENDATIONS OR RECOMMENDATIONS TO THE USER SHALL NOT BE A BASIS FOR THE USER NOT TO BE DECEASED BY REPLICATION OR OTHERWISE AS IN ANY MANNER LICENSES THE HOLDER OR ANY OTHER PERSON OR CORPORATION OR COMPANY. ANY USER OF THIS DRAWING OR SPECIFICATION SHALL BE RESPONSIBLE FOR OBTAINING THE STATUS AND DETERMINE THE BEST THESE DRAWINGS OR SPECIFICATIONS ARE AND ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED RECOMMENDATIONS OR RECOMMENDATIONS TO THE USER SHALL NOT BE A BASIS FOR THE USER NOT TO BE DECEASED BY REPLICATION OR OTHERWISE AS IN ANY MANNER LICENSES THE HOLDER OR ANY OTHER PERSON OR CORPORATION OR COMPANY.







REFERENCE			
REF. DES.	PART NO.	DESCRIPTION	VALUE
—	1006771	GATE	—
C1	1006755-79	CAPACITOR	6.8 UF
C2			
C3			
C4			

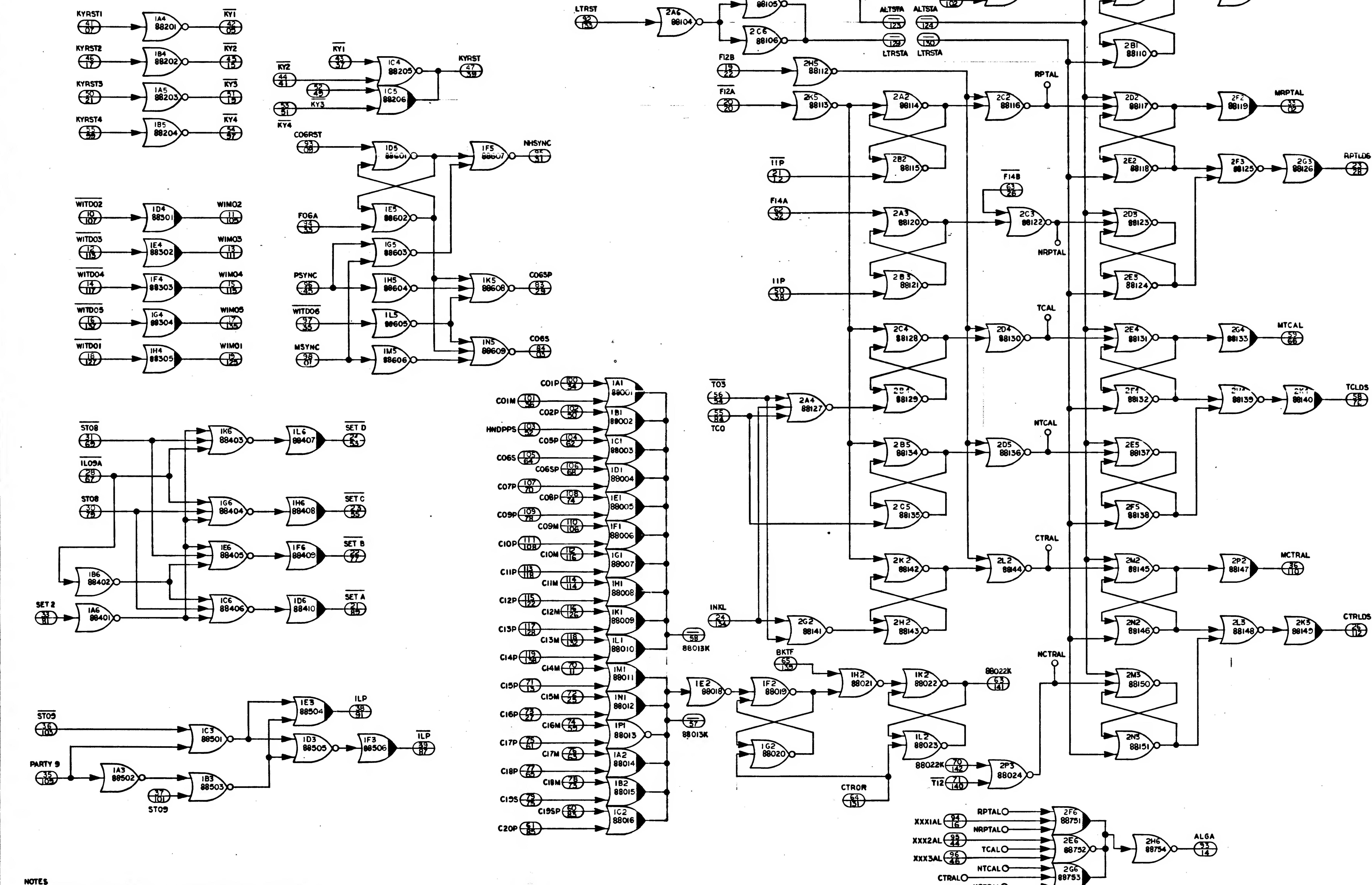


QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			
MTF INSTRUMENTATION LAB <i>Continued</i> DOW NO CONTRACT DRAWING <i>Q-20</i> DATE <i>2/28/68</i> CHECKED APPROVAL <i>JTB Danner 2/28/68</i> APPROVAL <i>Eden Calkins 2/28/68</i>		MANNED SPACECRAFT CENTER HOUSTON, TEXAS LOGIC FLOW "T" MODULE NO. A 35	
NASA DRAWING NO <i>100657</i>		CODE IDENT NO —	SIZE E
MTF APPROVAL <i>Q-20 2/28/68</i>		SCALE <i>1/4"</i>	WT <i>—</i> SHEET <i>1</i> OF <i>1</i>

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. SEE DRAWING NO. 100603 FOR LOGIC DESIGN CRITERIA
3.  DENOTES AGC4 PIN NO.
 DENOTES AGC5 PIN NO.
4.  DENOTES AGC 4 CIRCUIT NO.
 DENOTES AGC 5 CIRCUIT NO.

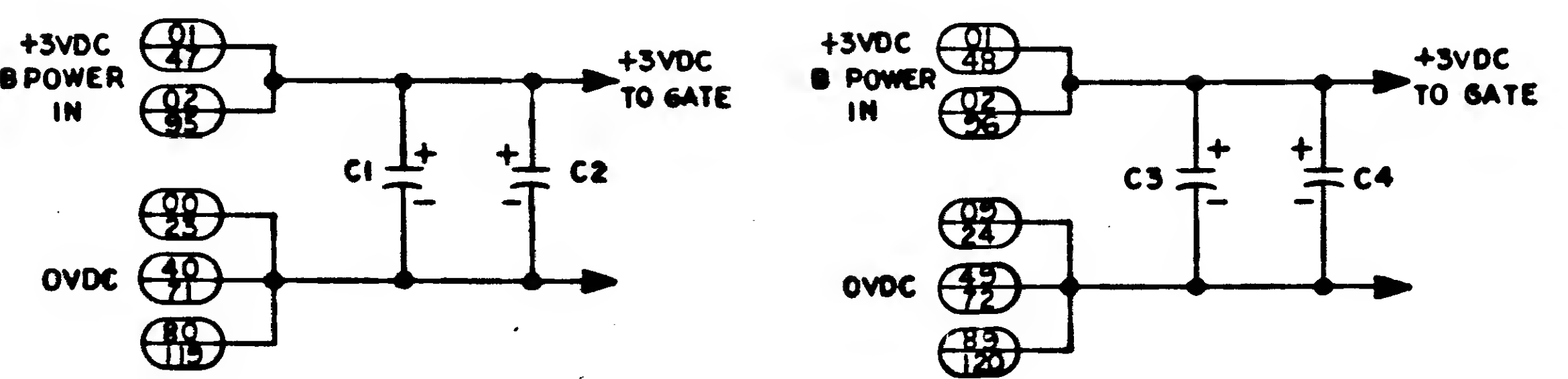
NOTES: 1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. 2. SEE DRAWING NO. 1006503 FOR LOGIC DESIGN CRITERIA. 3. DENOTES AGC 4 PIN NO. DENOTES AGC 5 PIN NO. 4. DENOTES AGC 4 CIRCUIT NO. DENOTES AGC 5 CIRCUIT NO.



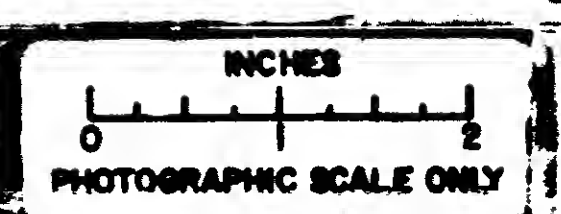
NOTES: 1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. 2. SEE DRAWING NO. 1006503 FOR LOGIC DESIGN CRITERIA. 3. DENOTES AGC 4 PIN NO. DENOTES AGC 5 PIN NO. 4. DENOTES AGC 4 CIRCUIT NO. DENOTES AGC 5 CIRCUIT NO.

REF DES	PART NO.	DESCRIPTION	VALUE
C1	1006771	GATE	
C2	1006755-75	CAPACITOR	6.8 UF
C3			
C4			

REFERENCE



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING MATERIAL HEAT TREATMENT NEXT ASSY USED ON APPLICATION	MTI INSTRUMENTATION LAB COLUMBIA MISS DRAWN BY: [Signature] CHECKED BY: [Signature] APPROVAL BY: [Signature] NESA APPROVAL BY: [Signature] MIT APPROVAL BY: [Signature]	LIST OF MATERIALS MANNED SPACECRAFT CENTER HOUSTON, TEXAS LOGIC FLOW "V" LOGIC MODULE NO. A29 NESA DRAWING NO. 1006559 SCALE: 1/4" = 1"
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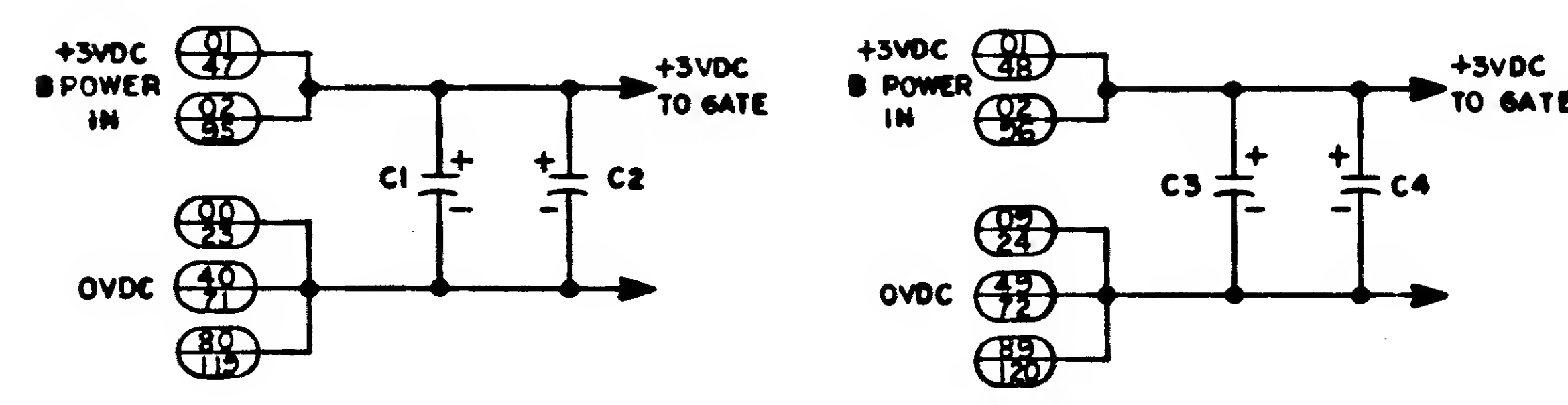


1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70527
 2. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA
 3. DENOTES AGC & PIN NO.
 4. DENOTES AGC & CIRCUIT NO.

NOTES
 1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70527
 2. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA
 3. DENOTES AGC & PIN NO.
 4. DENOTES AGC & CIRCUIT NO.

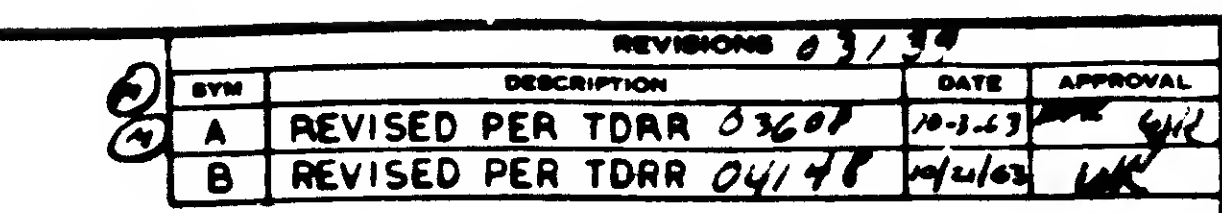
REF DES	PART NO.	DESCRIPTION	VALUE
C1	1006771	GATE	
C2	1006755-79	CAPACITOR	6.8 UF
C3			
C4			

REFERENCE



UNLESS OTHERWISE SPECIFIED	INSTRUMENTATION LAB	MANNED SPACECRAFT CENTER
DIMENSIONS ARE IN INCHES	DATE: 7/1/65	HOUSTON, TEXAS
TOLERANCES ON	CHECKED: 7/1/65	
FRACTIONS	APPROVED: 7/1/65	
DECIMALS		
ANGLES		
DO NOT SCALE THIS DRAWING		
MATERIAL		
HEAT TREATMENT		
FINISH		
APPLICATION		

QTY	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	PRD NO.
LIST OF MATERIALS			
INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER	
DATE: 7/1/65		HOUSTON, TEXAS	
CHECKED: 7/1/65		LOGIC FLOW "V"	
APPROVED: 7/1/65		LOGIC MODULE NO. A29	
NASA APPROVED: 7/1/65	CODE IDENT NO.	SIZE	NASA DRAWING NO.
1006559	E	1006559	1006559
SCALE	WT	SHEET 1 OF 1	

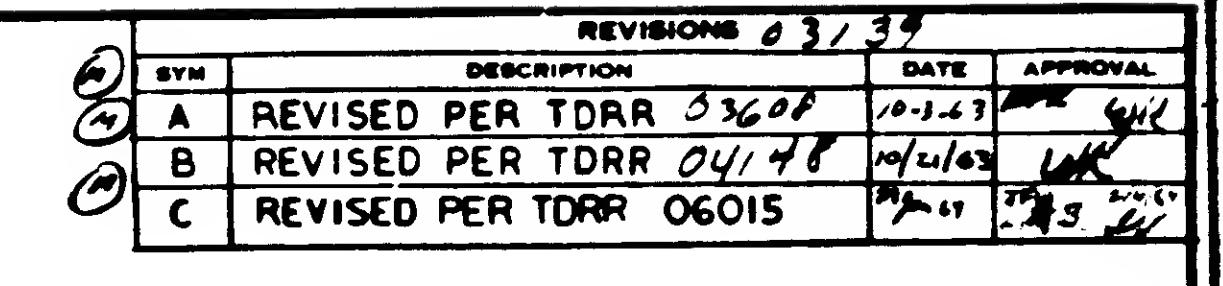


- | | | | | | | | |
|--|--|--|--|--|--|------------|--|
| QTY
REQD | | PART
OR IDENTIFYING NO. | | NOMENCLATURE OR DESCRIPTION | | FND
NO. | |
| | | | | LIST OF MATERIALS | | | |
| UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ON
DECIMALS ON
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
NEXT ASBY
USED ON
APPLICATION | | N.Y.
INSTRUMENTATION LAB
Customer Use
(PROJECT)
DRAWN <i>W.D. Olson</i> DATE <i>4/15/65</i>
CHECKED
APPROVAL <i>W.D. Olson 7/1/65</i>
MATERIAL <i>Steel Cast 1700</i>
NASA APPROVAL <i>2/2/66</i>
INT APPROVAL <i>W.D. Olson 7/1/65</i> | | MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC FLOW "V"
LOGIC MODULE NO. A29

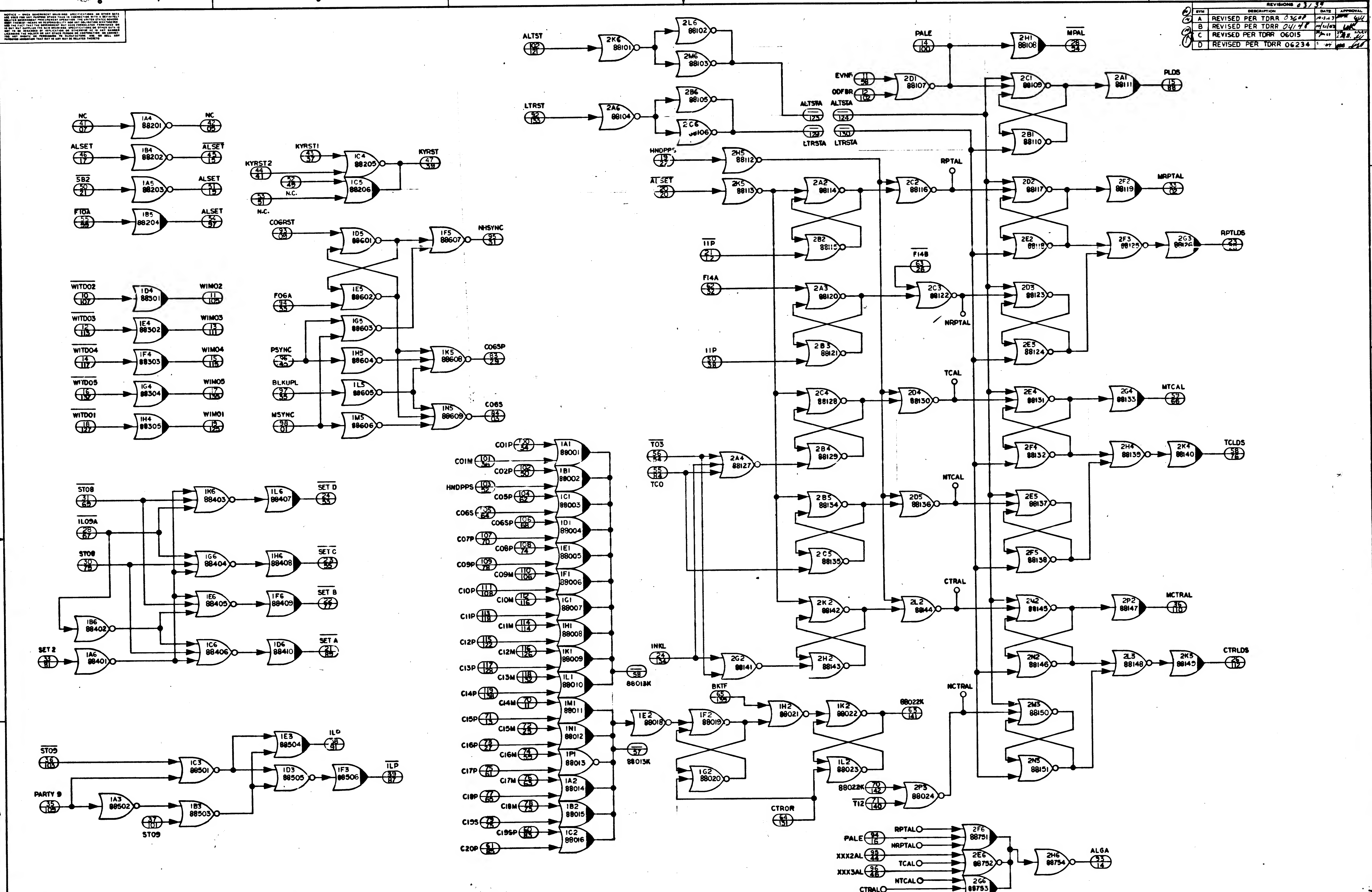
CODE IDENT NO. E NESA DRAWING NO. 1006559
SCALE <i>1/4" = 1"</i> WT 1 SHEET 1 OF 1 | | | |

INCHES
0 2
PHOTOGRAPHIC SCALE ONLY



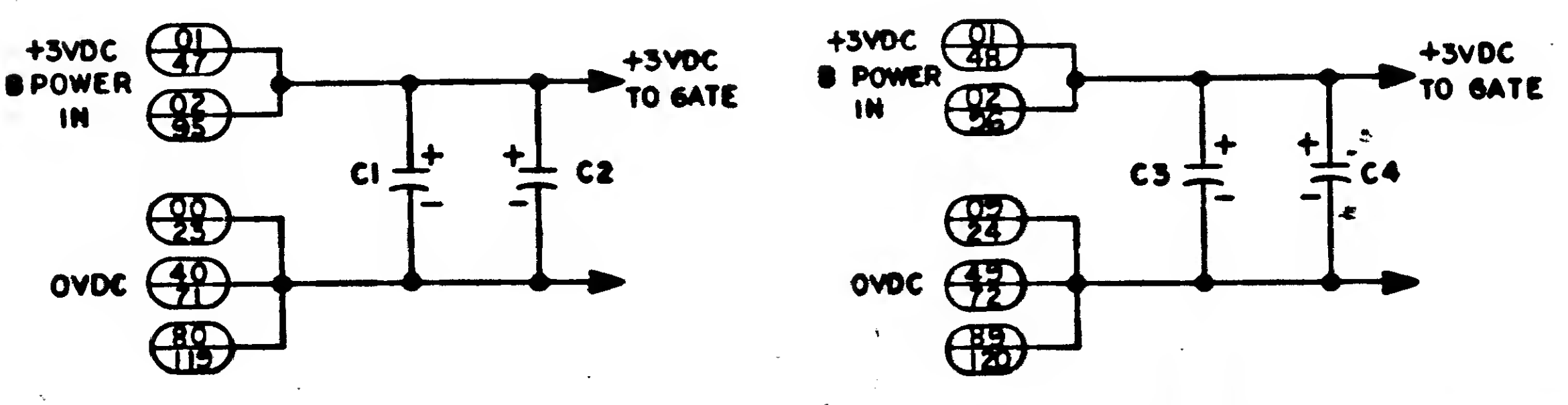
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|--|--|--|--|--|--|--|--|--------------------------------|--|--------------|--|
| | | | | QTY
REQD | | PART OR
IDENTIFYING NO. | | NOMENCLATURE OR
DESCRIPTION | | FIND
NO | |
| | | | | | | LIST OF MATERIALS | | | | | |
| | | | | M I T
INSTRUMENTATION LAB
COLUMBIA STATION | | MANNED SPACECRAFT CENTER
HOUSTON, TEXAS | | | | | |
| | | | | DRAWN <i>W. H. H. H.</i> DATE <i>4/11/63</i> | | LOGIC FLOW "V"
LOGIC MODULE NO. A29 | | | | | |
| | | | | CHECKED | | | | | | | |
| UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS = DECIMALS = ANGLES | | | | APPROVAL <i>W. H. H. H.</i> DATE <i>4/11/63</i> | | NASA DRAWING NO
1006559 | | | | | |
| DO NOT SCALE THIS DRAWING
MATERIAL | | | | APPROVAL <i>W. H. H. H.</i> DATE <i>4/11/63</i> | | | | | | | |
| HEAT TREATMENT | | | | NASA APPROVAL <i>W. H. H. H.</i> DATE <i>4/11/63</i> | | CODE IDENT NO. <i>1</i> | | SIZE <i>E</i> | | | |
| NEXT ASSY | | | | MKT APPROVAL <i>W. H. H. H.</i> DATE <i>4/11/63</i> | | SCALE <i>1/4" = 1"</i> | | WT | | SHEET # OF # | |
| APPLICATION | | | | | | | | | | | |

REV	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR 0307	10-1-73	W. J. [Signature]
B	REVISED PER TDRR 0418	10-1-73	W. J. [Signature]
C	REVISED PER TDRR 06015	10-1-73	W. J. [Signature]
D	REVISED PER TDRR 06234	10-1-73	W. J. [Signature]

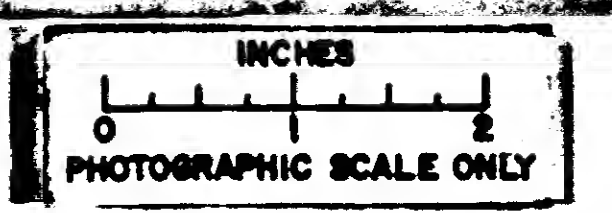


- NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. SEE DRAWING NO. 1006013 FOR LOGIC DESIGN CRITERIA
 3. DENOTES AND GATE PIN NO.
 DENOTES OR GATE PIN NO.
 4. DENOTES AND GATE CIRCUIT NO.
 DENOTES OR GATE CIRCUIT NO.

REF DES	PART NO.	DESCRIPTION	VALUE
C1	1006771	GATE	
C2	1006755-75	CAPACITOR	6.8 UF
C3			
C4			

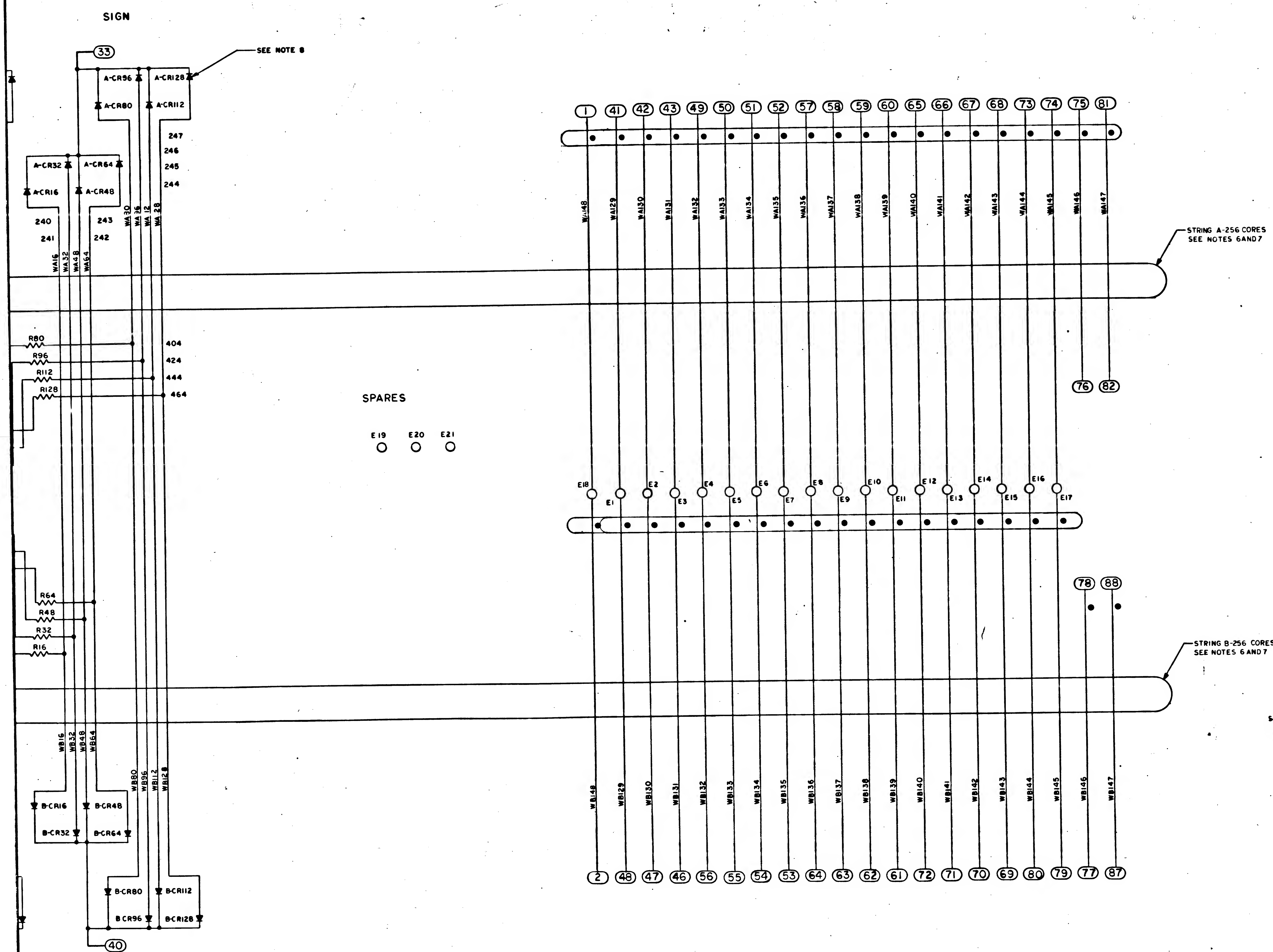


QTY		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIG NO
LIST OF MATERIALS						
INSTRUMENTATION LAB DRAWN BY [Signature] DATE 10/1/73 CHECKED BY [Signature] APPROVAL BY [Signature] MATERIAL HEAT TREATMENT NEXT ASBY USED ON APPLICATION				MANNED SPACECRAFT CENTER HOUSTON, TEXAS LOGIC FLOW "V" LOGIC MODULE NO. A29 CODE IDENT NO. E SIZE 1006559 SCALE 1 OF 1		



D 1006144

REV	DESCRIPTION	DATE	BY	CHK
A	REVISED PER TDRR 06751	06/75	WJ	WJ
B	REVISED PER TDRR 13998	07/75	WJ	WJ
C	REVISED PER TDRR 17468	07/75	WJ	WJ
D	REVISED PER TDRR 20258	07/75	WJ	WJ



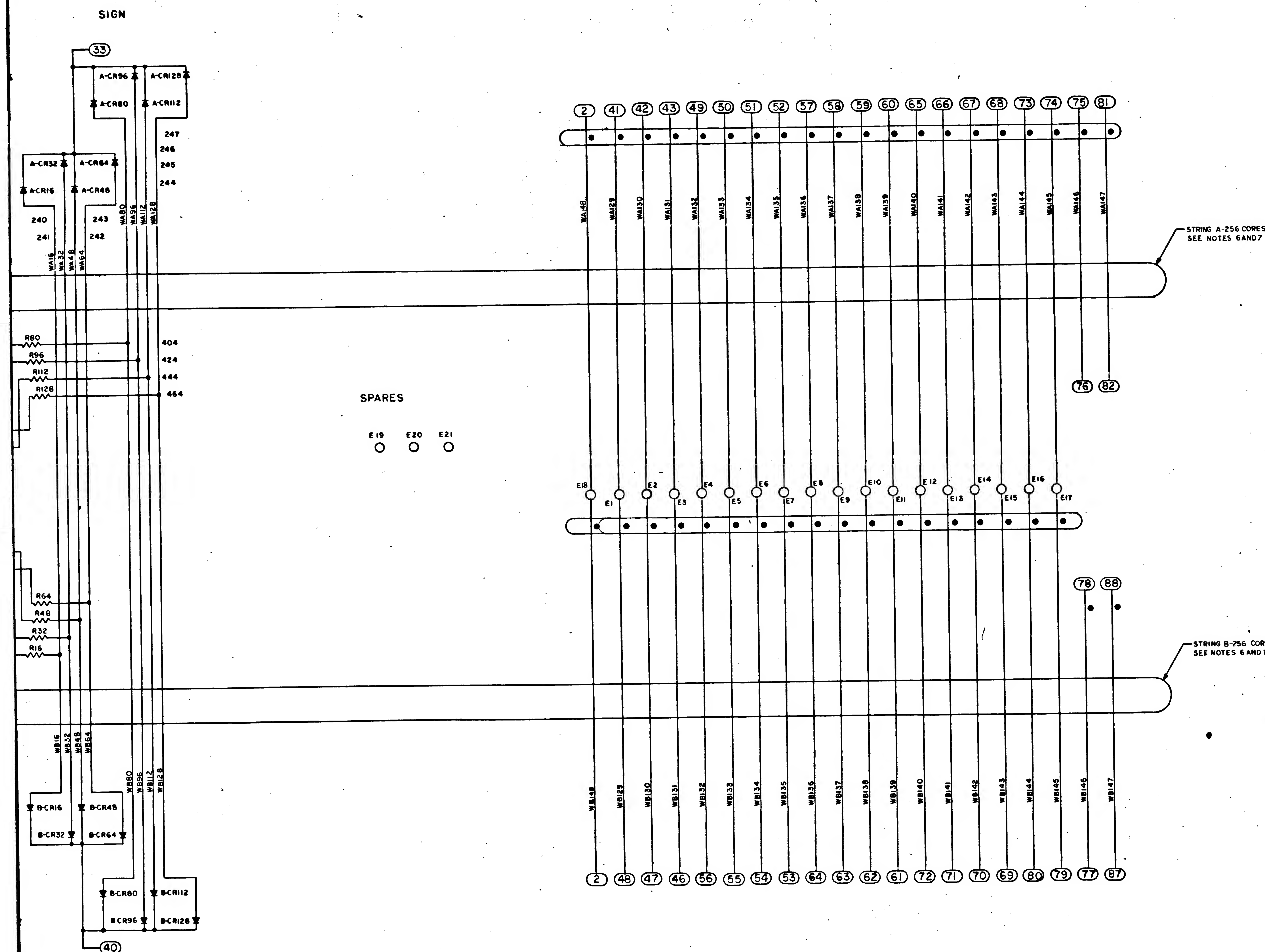
WIRE ASSIGNMENT TABLE	
WIRE DESIGNATION	FUNCTION SIGN
	STICK 1 OF ROPE STICK 2 OF ROPE
WA1-WA16	SS00 SS20 SS40 SS10 SS30 SS50
WA17-WA32	SS01 SS21 SS41 SS11 SS31 SS51
WA33-WA48	SS02 SS22 SS42 SS12 SS32 SS52
WA49-WA64	SS03 SS23 SS43 SS13 SS33 SS53
WB1-WB16	SS04 SS24 SS44 SS14 SS34 SS54
WB17-WB32	SS05 SS25 SS45 SS15 SS35 SS55
WB33-WB48	SS06 SS26 SS46 SS16 SS36 SS56
WB49-WB64	SS07 SS27 SS47 SS17 SS37 SS57
WA65-WA80	SS100 SS120 SS140 SS110 SS130 SS150
WA81-WA96	SS101 SS121 SS141 SS111 SS131 SS151
WA97-WA112	SS102 SS122 SS142 SS112 SS132 SS152
WA113-WA128	SS103 SS123 SS143 SS113 SS133 SS153
WB65-WB80	SS104 SS124 SS144 SS114 SS134 SS154
WB81-WB96	SS105 SS125 SS145 SS115 SS135 SS155
WB97-WB112	SS106 SS126 SS146 SS116 SS136 SS156
WB113-WB128	SS107 SS127 SS147 SS117 SS137 SS157
WA-WB129	RESET RESET
WA-WB130	7 7
WA-WB131	7 7
WA-WB132	6 6
WA-WB133	6 6
WA-WB134	5 5
WA-WB135	5 5
WA-WB136	4 4
WA-WB137	4 4
WA-WB138	3 3
WA-WB139	3 3
WA-WB140	2 2
WA-WB141	2 2
WA-WB142	1 1
WA-WB143	1 1
WA-WB144	P P
WA-WB145	P P
WA146	SET A SET A
WB146	SET C SET C
WA147	SET B SET B
WB147	SET D SET D
WB148	TEST LINE TEST LINE

PART NO	DESCRIPTION	VALUE	TOL	RATING	QTY
1006750-39	RESISTOR	2000	±5%	1/4W	128
1006751	DIODE				256
1006320-001	CORE				512
1006298-1	CORE				512

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REV NO.
LIST OF MATERIALS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES = ± * * * * DO NOT SCALE THIS DRAWING MATERIAL HEAT TREATMENT NEXT ASSY USED ON APPLICATION			
INSTRUMENTATION LAB DATE 7/29/73 CHECKED APPROVAL MANNED SPACECRAFT CENTER HOUSTON, TEXAS SCHEMATIC ROPE MODULE NASA DRAWING NO. 80230 J 1006144		SHEET 1 OF 1	

C 1006144

REVISIONS		DATE	BY	APPROVED
A	REVISED PER TDRR 06751	11/6/63	WJ	WJ
B	REVISED PER TDRR 13998 DR P. A. L. C. CHK. 06/63	11/6/63	WJ	WJ
C	REVISED PER TDRR 17468 DR J. C. L. C. CHK. 06/63	11/6/63	WJ	WJ



WIRE ASSIGNMENT TABLE	
WIRE DESIGNATION	FUNCTION SIGN
WA1-WA6	SS00 SS20 SS40 SS10 SS30 SS50
WA7-WA32	SS01 SS21 SS41 SS11 SS31 SS51
WA33-WA48	SS02 SS22 SS42 SS12 SS32 SS52
WA49-WA64	SS03 SS23 SS43 SS13 SS33 SS53
WB1-WB16	SS04 SS24 SS44 SS14 SS34 SS54
WB17-WB32	SS05 SS25 SS45 SS15 SS35 SS55
WB33-WB48	SS06 SS26 SS46 SS16 SS36 SS56
WB49-WB64	SS07 SS27 SS47 SS17 SS37 SS57
WA65-WA80	SS100 SS120 SS140 SS110 SS130 SS150
WA81-WA96	SS101 SS121 SS141 SS111 SS131 SS151
WA97-WA112	SS102 SS122 SS142 SS112 SS132 SS152
WA113-WA128	SS103 SS123 SS143 SS113 SS133 SS153
WB65-WB80	SS104 SS124 SS144 SS114 SS134 SS154
WB81-WB96	SS105 SS125 SS145 SS115 SS135 SS155
WB97-WB112	SS106 SS126 SS146 SS116 SS136 SS156
WB113-WB128	SS107 SS127 SS147 SS117 SS137 SS157
WA-WB129	RESET RESET
WA-WB130	7 7
WA-WB131	7 7
WA-WB132	6 6
WA-WB133	5 5
WA-WB134	5 5
WA-WB135	5 5
WA-WB136	4 4
WA-WB137	4 4
WA-WB138	3 3
WA-WB139	3 3
WA-WB140	2 2
WA-WB141	2 2
WA-WB142	1 1
WA-WB143	1 1
WA-WB144	P P
WA-WB145	P P
WA146	SET A SET A
WB146	SET C SET C
WA147	SET B SET B
WB147	SET D SET D
WB148	TEST LINE TEST LINE

SEE NOTE 4

STRING B-256 CORES
SEE NOTES 6 AND 7

PART NO.	DESCRIPTION	VALUE	TOL.	RATING	QTY
1006750-39	RESISTOR	2000	±5%	1/4W	128
1006751	DIODE				256
1006773-	CORE				512

SEE NOTES 5

QTY REQD	PART OR IDENTIFYING NO.	DESCRIPTION OR IDENTIFICATION	REV. NO.
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
SCHEMATIC ROPE MODULE			
NASA DRAWING NO. 1006144			
SCALE 1/4" = 1"			
SHEET 1 OF 1			

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
CHECKED
DO NOT SCALE THIS DRAWING
DATE
HEAT TREATMENT
NEXT ASSY USED ON
APPLICATION

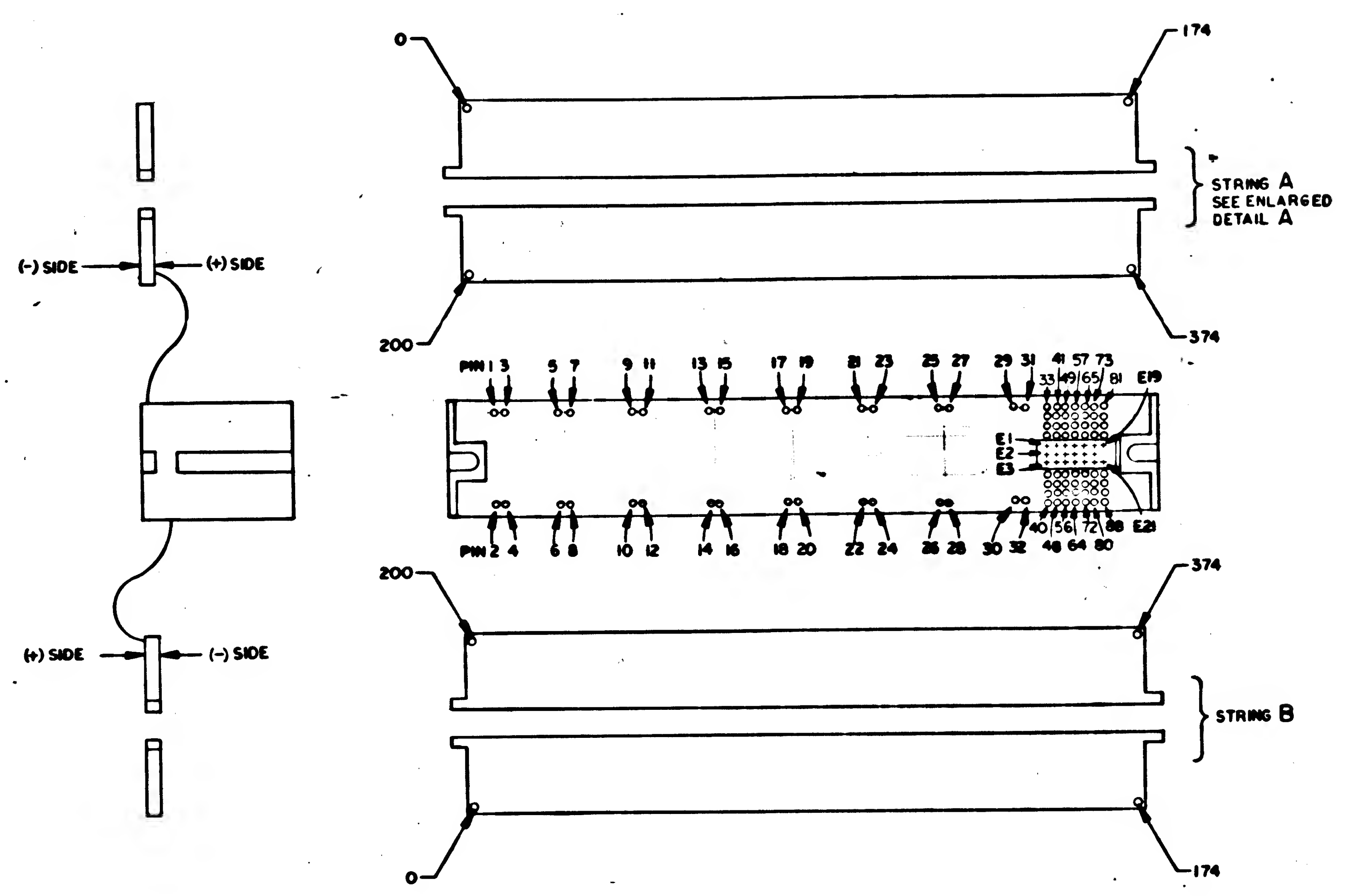
INSTRUMENTATION LAB
DATE 11/6/63
APPROVAL
NADA APPROVAL
REV APPROVAL

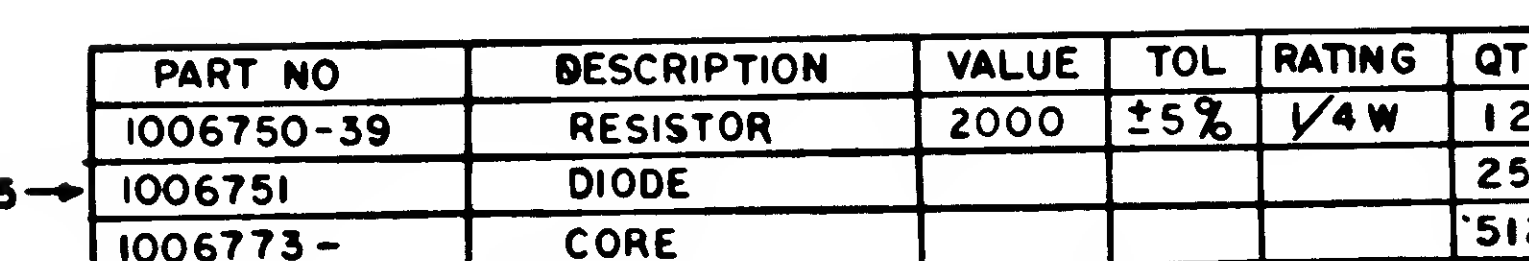
CODE IDENT NO. J
SIZE
NADA DRAWING NO. 1006144

F-37-3

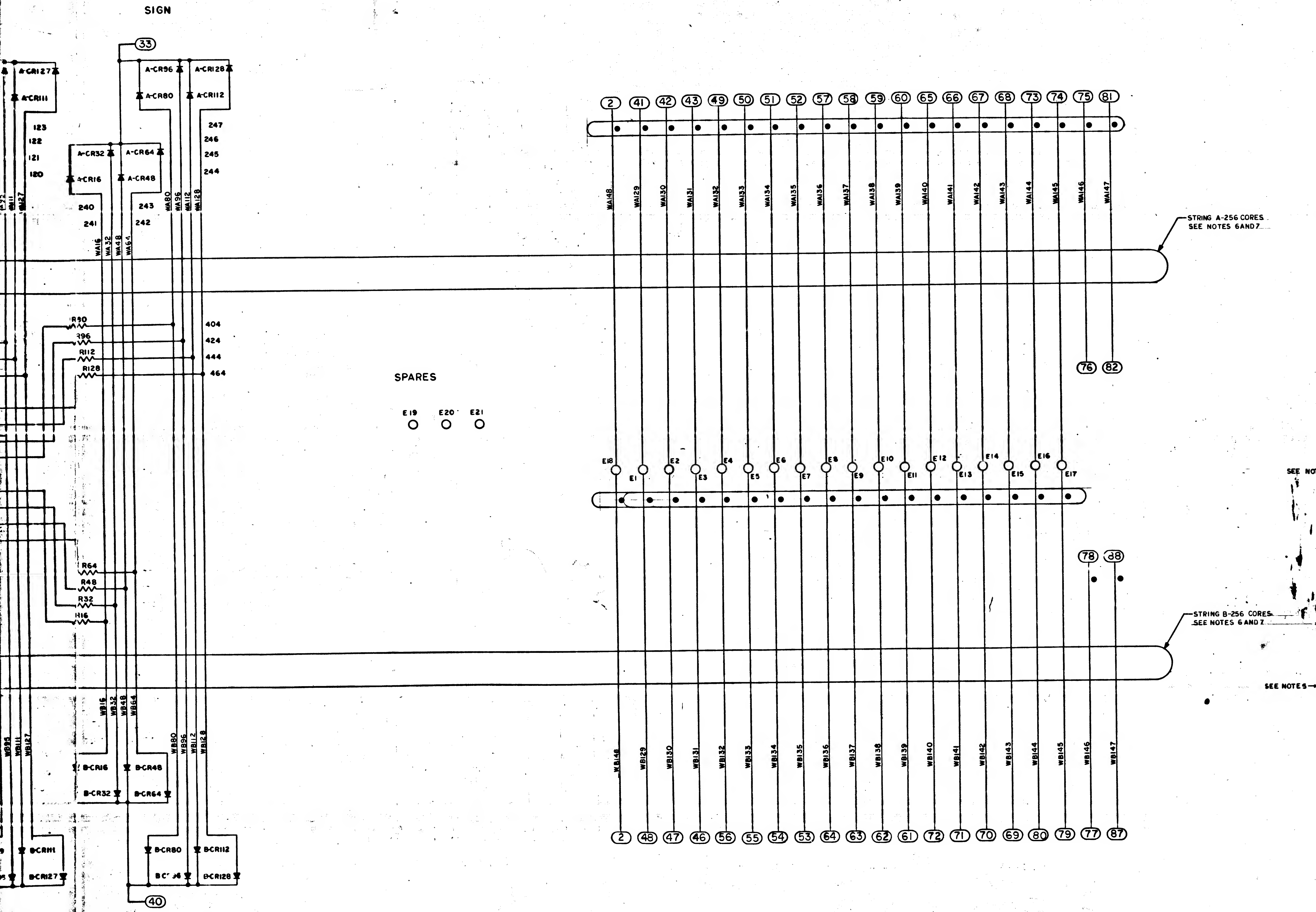
1006144 C

REVISIONS			DATE	APPROVAL
A	THIS SHEET ADDED PER TDRA 1675		1/16/75	
B	REVISED PER TDRA 15998 DR 014611 CHN 014611		1/16/75	
C	OBSOLETE PER TDRA 17468 DR 014611 CHN 014611		1/16/75	





QTY. USED		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION	
LIST OF MATERIALS					
SITY		MANNED SPACECRAFT CENTER			
INSTRUMENTATION LAB		HOUSTON, TEXAS			
Component Name					
DRAWING NO.		REVISION			
DATE 4/24/63					
CHECKED					
DATE 4/24/63					
BY C. H. HALL					
NADA APPROVAL 4/24/63		CODE IDENT. NO.		NADA DRAWING NO.	
DATE 4/24/63		SIZE		1006144	
MET. APPROVAL 4/24/63		BY		SHEET 1 OF	



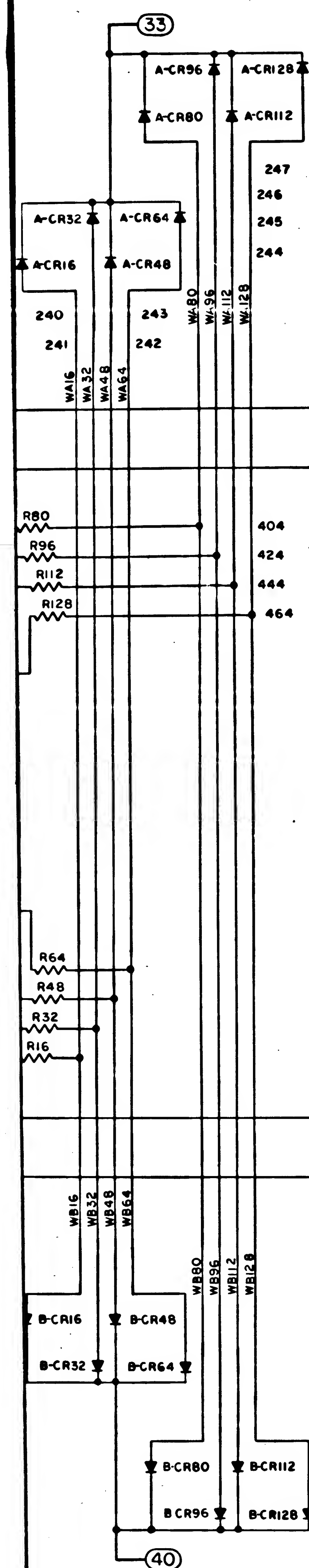
WIRE ASSIGNMENT TABLE									
WIRE DESIGNATION	FUNCTION SIGN								
	STICK 1 OF ROPE			STICK 2 OF ROPE					
	R	S	T	R	S	T	R	S	T
WA1-WA16	SS01	SS21	SS41	SS10	SS30	SS50			
WA17-WA32	SS01	SS21	SS41	SS11	SS31	SS51			
WA33-WA48	SS02	SS22	SS42	SS12	SS32	SS52			
WA49-WA64	SS03	SS23	SS43	SS13	SS33	SS53			
WB1-WB16	SS04	SS24	SS44	SS14	SS34	SS54			
WB17-WB32	SS05	SS25	SS45	SS15	SS35	SS55			
WB33-WB48	SS06	SS26	SS46	SS16	SS36	SS56			
WB49-WB64	SS07	SS27	SS47	SS17	SS37	SS57			
WA65-WA80	SS100	SS120	SS140	SS110	SS130	SS150			
WA81-WA96	SS101	SS121	SS141	SS111	SS131	SS151			
WA97-WA112	SS102	SS122	SS142	SS112	SS132	SS152			
WA113-WA128	SS103	SS123	SS143	SS113	SS133	SS153			
WB65-WB80	SS104	SS124	SS144	SS114	SS134	SS154			
WB81-WB96	SS105	SS125	SS145	SS115	SS135	SS155			
WB97-WB112	SS106	SS126	SS146	SS116	SS136	SS156			
WB113-WB128	SS107	SS127	SS147	SS117	SS137	SS157			
WA#WB129	RESET			RESET					
WA#WB130	7			7					
WA#WB131	7			7					
WA#WB132	6			6					
WA#WB133	6			6					
WA#WB134	5			5					
WA#WB135	5			5					
WA#WB136	4			4					
WA#WB137	4			4					
WA#WB138	3			3					
WA#WB139	3			3					
WA#WB140	2			2					
WA#WB141	2			2					
WA#WB142	1			1					
WA#WB143	T			T					
WA#WB144	P			P					
WA#WB145	P			P					
WA146	SET A			SET A					
WB146	SET C			SET C					
WA147	SET B			SET B					
WB147	SET D			SET D					
WB148	TEST LINE			TEST LINE					

PART NO	DESCRIPTION	VALUE	TOL	RATING	QTY
1006750-39	RESISTOR	2000	±5%	1/4W	128
1006751	DIODE				256
1006773-	CORE				512

QTY REQ	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REV NO.
LIST OF MATERIALS			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DO NOT SCALE THIS DRAWING		SCHEMATIC ROPE MODULE	
MATERIAL		CODE IDENT NO. J	
HEAT TREATMENT		NADA DRAWING NO. 1006144	
FINISH		SCALE 1/4" = 1"	
APPLICATION		SHEET 1 OF 2	

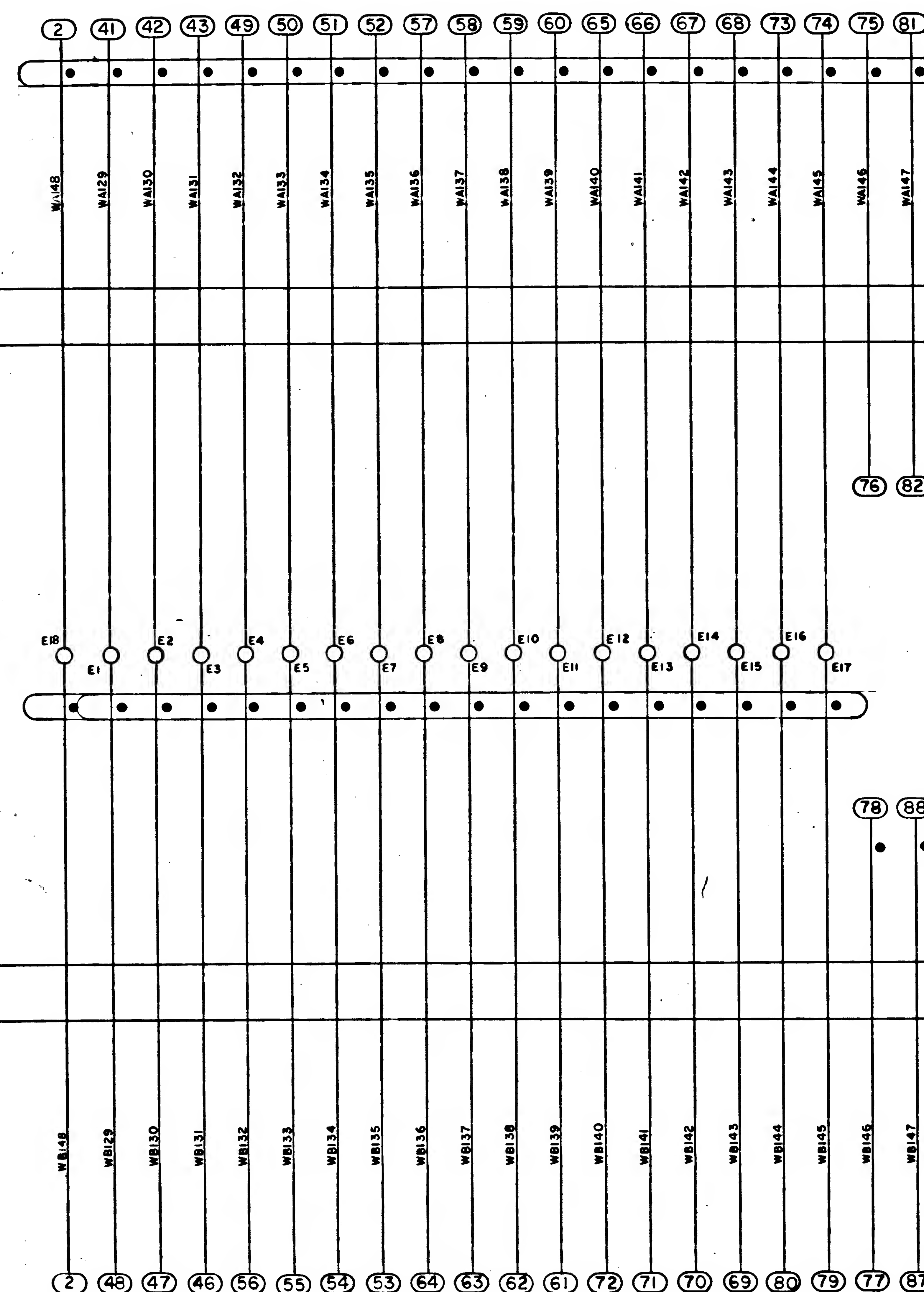
B 1006144

REV	DESCRIPTION	DATE	BY	APP
A	REVISED PER TDRR 06751	11/6/79	WJ	WJ
B	REVISED PER TDRR 13998	11/6/79	WJ	WJ
C	DR & APPR. CHK	11/6/79	WJ	WJ



SPARES

E19 E20 E21

STRING A-256 CORES
SEE NOTES 6 AND 7STRING B-256 CORES
SEE NOTES 6 AND 7

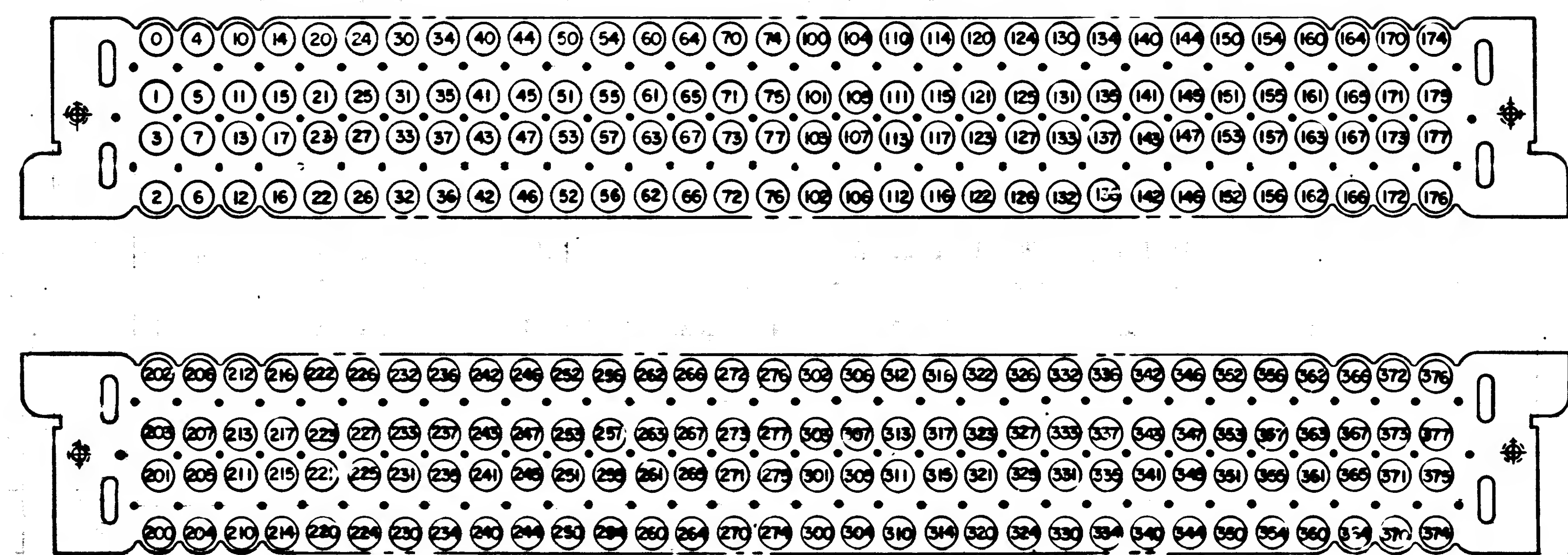
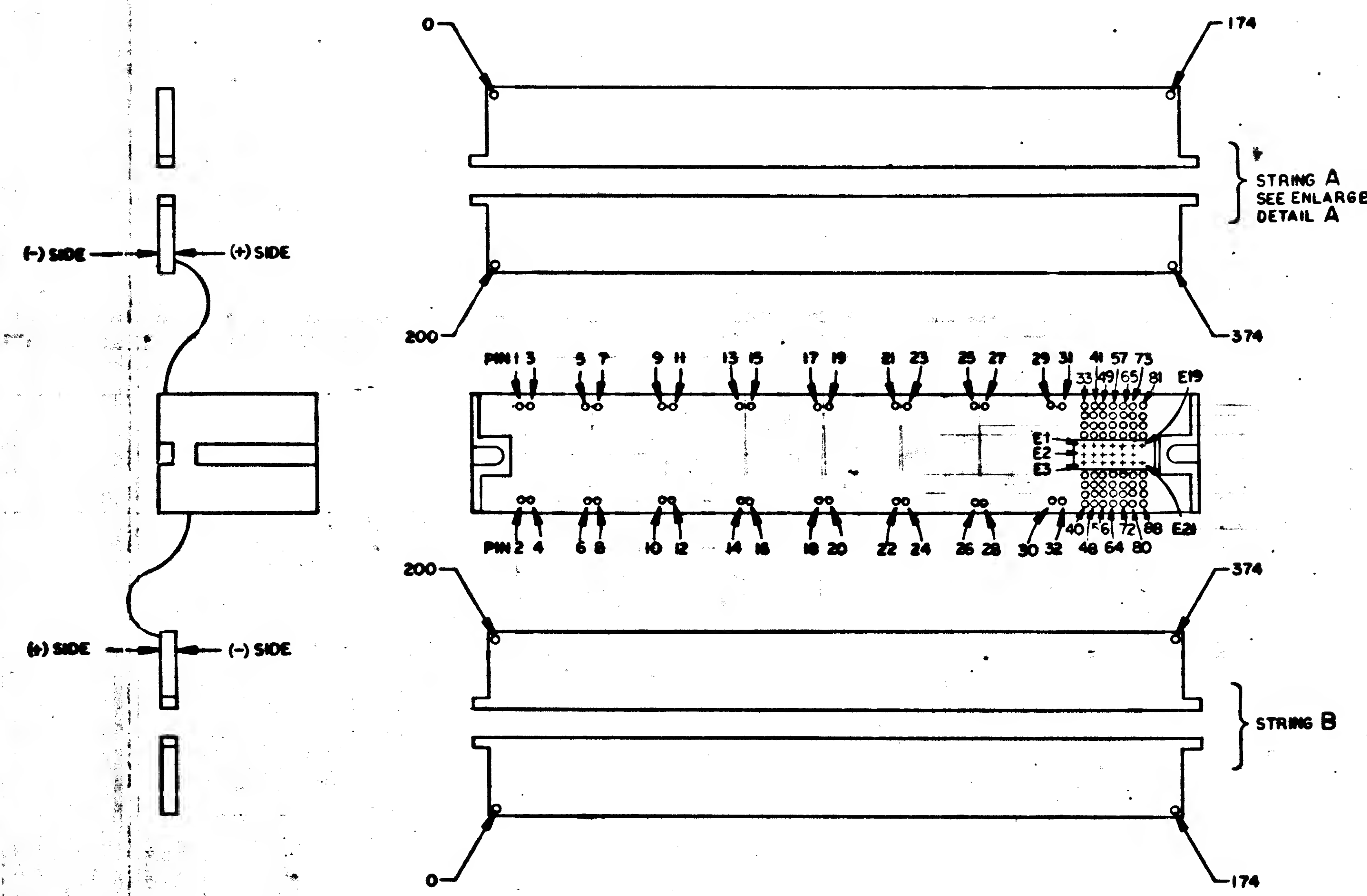
WIRE ASSIGNMENT TABLE	
WIRE DESIGNATION	FUNCTION SIGN
WAI-WA16	SS00 SS20 SS40 SS10 SS30 SS50
WAI7-WA32	SS01 SS21 SS41 SS11 SS31 SS51
WA33-WA48	SS02 SS22 SS42 SS12 SS32 SS52
WA49-WA64	SS03 SS23 SS43 SS13 SS33 SS53
WBI-WB16	SS04 SS24 SS44 SS14 SS34 SS54
WBI7-WB32	SS05 SS25 SS45 SS15 SS35 SS55
WBI33-WB48	SS06 SS26 SS46 SS16 SS36 SS56
WBI49-WB64	SS07 SS27 SS47 SS17 SS37 SS57
WAGS-WABO	SS100 SS120 SS140 SS110 SS130 SS150
WABI-WA96	SS101 SS121 SS141 SS111 SS131 SS151
WA97-WA112	SS102 SS122 SS142 SS112 SS132 SS152
WA113-WA128	SS103 SS123 SS143 SS113 SS133 SS153
WB65-WB80	SS104 SS124 SS144 SS114 SS134 SS154
WB81-WB96	SS105 SS125 SS145 SS115 SS135 SS155
WB97-WB112	SS106 SS126 SS146 SS116 SS136 SS156
WB113-WB128	SS107 SS127 SS147 SS117 SS137 SS157
WA#WB129	RESET RESET
WA#WB130	7 7
WA#WB131	7 7
WA#WB132	6 6
WA#WB133	6 6
WA#WB134	5 5
WA#WB135	5 5
WA#WB136	4 4
WA#WB137	4 4
WA#WB138	3 3
WA#WB139	3 3
WA#WB140	2 2
WA#WB141	2 2
WA#WB142	1 1
WA#WB143	1 1
WA#WB144	P P
WA#WB145	P P
WA146	SET A SET A
WB146	SET C SET C
WA147	SET B SET B
WB147	SET D SET D
WB148	TEST LINE TEST LINE

SEE NOTE 4

SEE NOTES

PART NO	DESCRIPTION	VALUE	TOL	RATING	QTY
1006750-39	RESISTOR	2000	±5%	1/4 W	128
1006751	DIODE				256
1006773	CORE				512

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	REV NO.
LIST OF MATERIALS			
MANNED SPACECRAFT CENTER HOUSTON, TEXAS		SCHEMATIC ROPE MODULE	
NADA APPROVAL 1006144		NADA DRAWING NO. 1006144	
SCALE 1/2"		SHEET 1 OF 2	



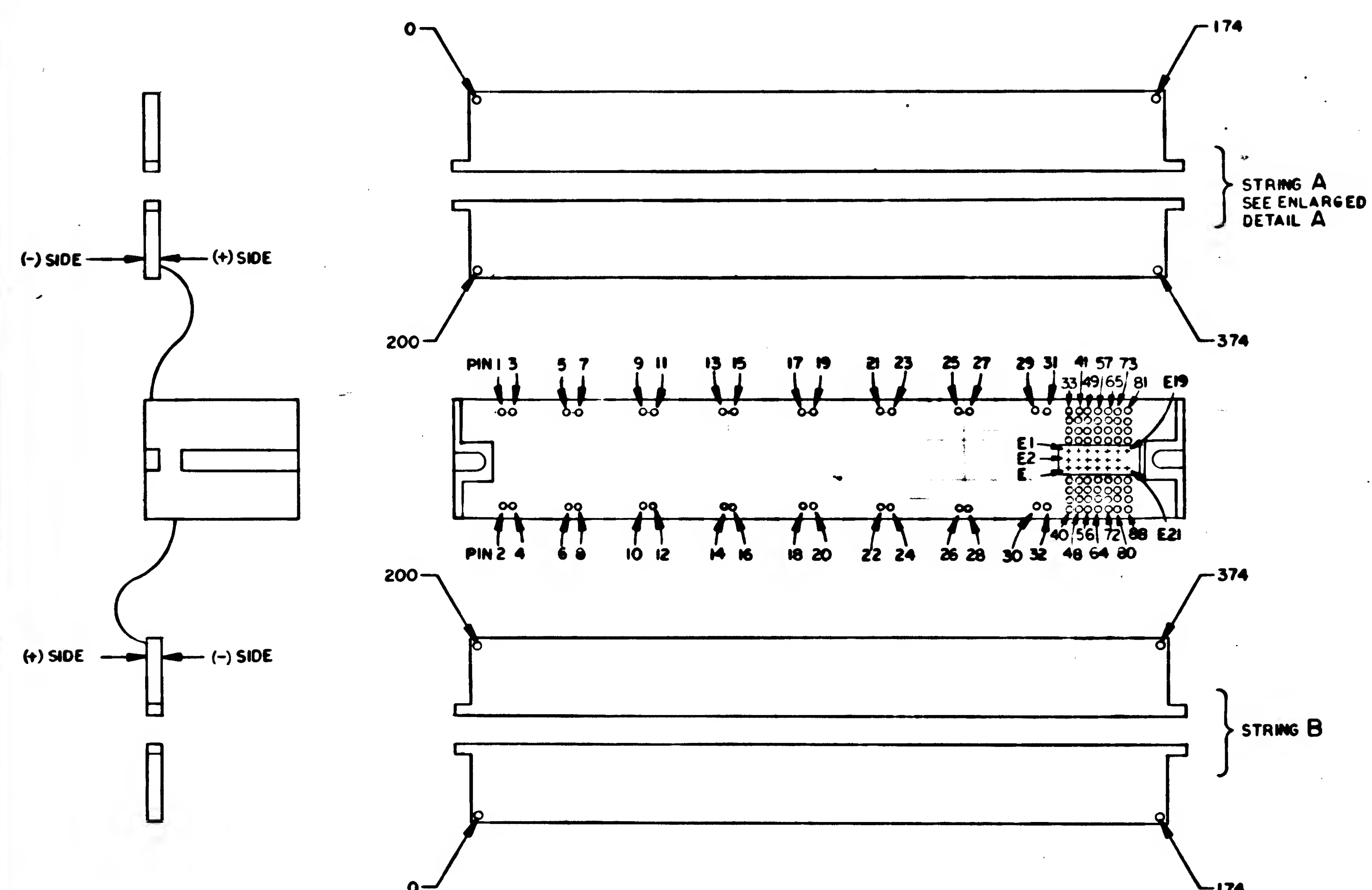
DETAIL A

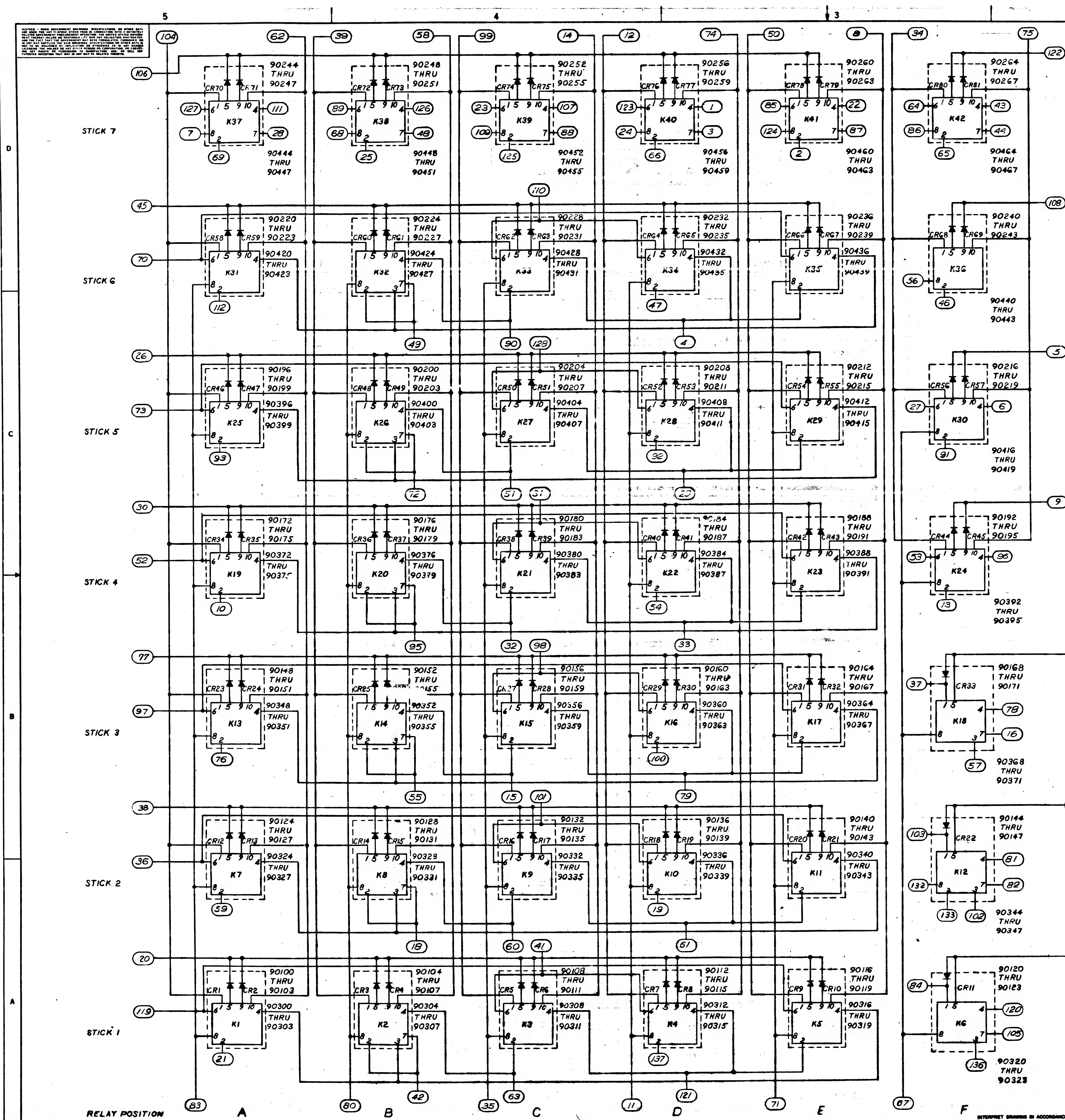
REV A. THIS SHEET ADDED

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIG NO.
LIST OF MATERIALS			
INSTRUMENTATION LAB		MANNED SPACECRAFT CENTER	
HOUSTON, TEXAS		HOUSTON, TEXAS	
SCHEMATIC		ROPE MODULE	
J		1006144	
SHEET 2 OF 2			

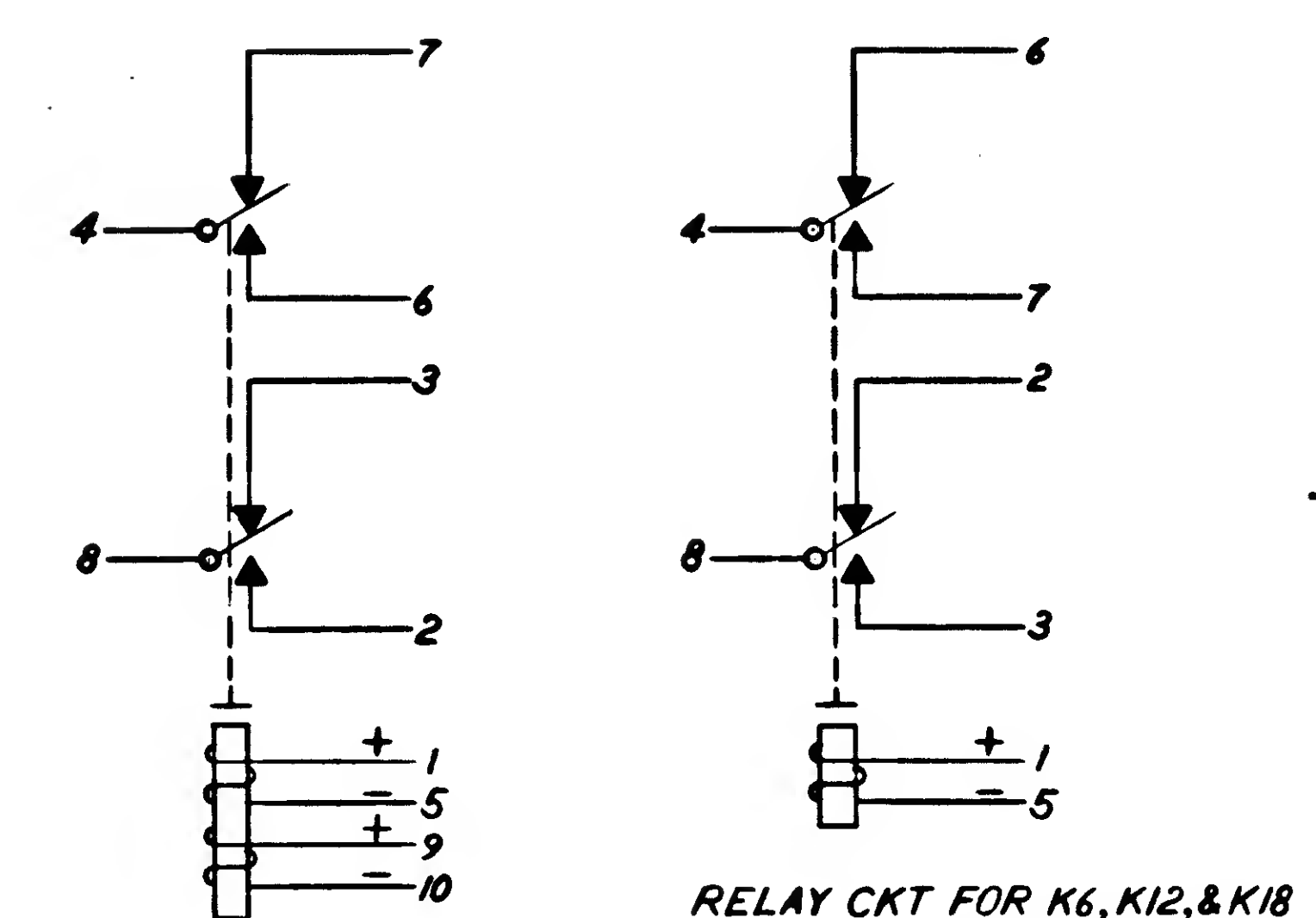
1006144 B

REVISIONS			
REV	DESCRIPTION	DATE	APPROVAL
A	THIS SHEET ADDED PER TDRR 46751	7/6/75	[Signature]
B	REVISED PER TDRR 13998 DR 6-11-10	7/6/75	[Signature]





COMPONENT LIST		
REF DESIGNATION	PART NO	DESCRIPTION
CR1 THRU CR81	1006751	DIODE
K6, K12, K18	1006815-2	RELAY
K1 THRU K5	1006772-1	↑
K7 THRU K11	1006772-1	
K13 THRU K17	1006772-1	↓
K19 THRU K42	1006772-1	RELAY

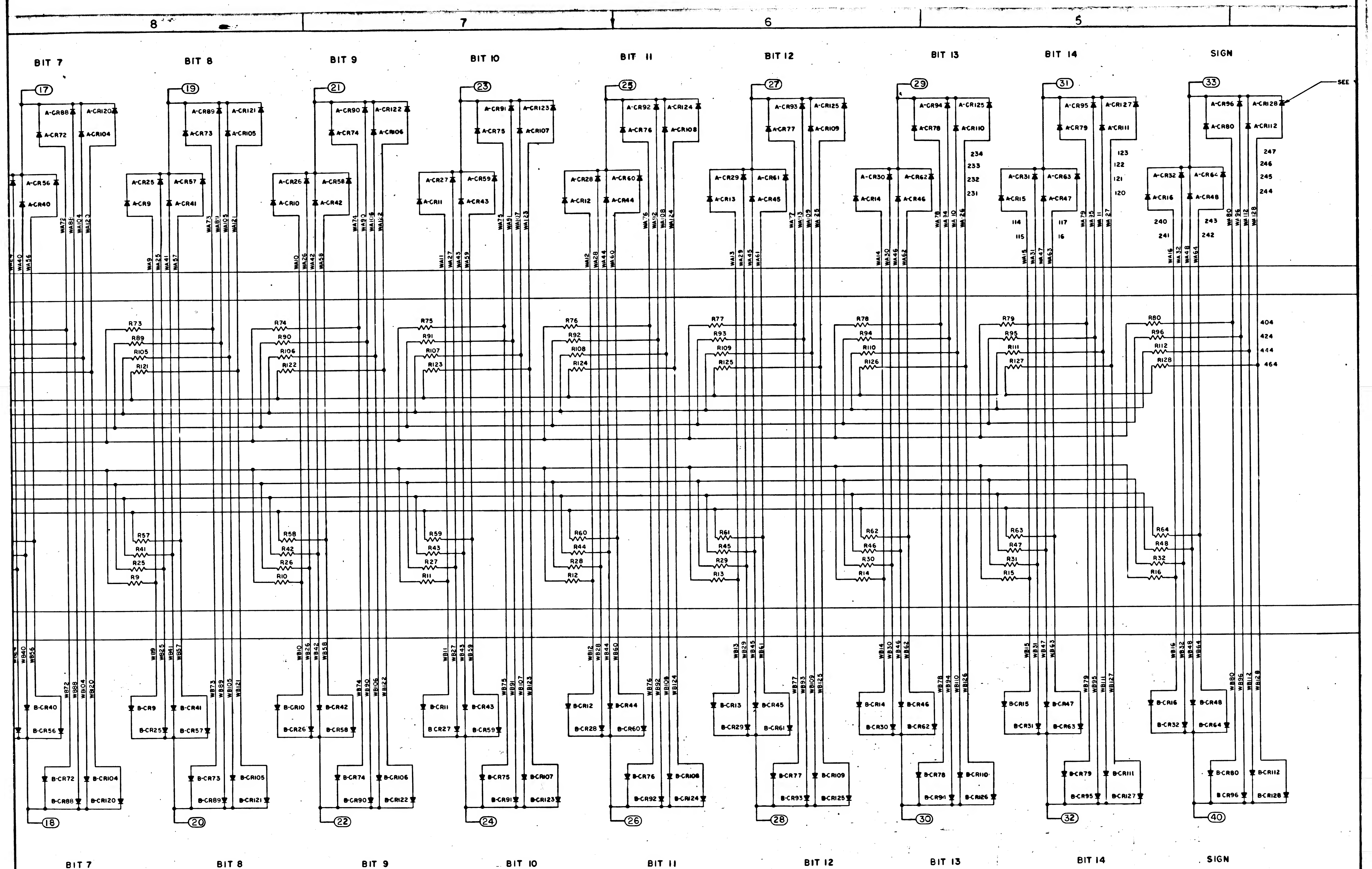


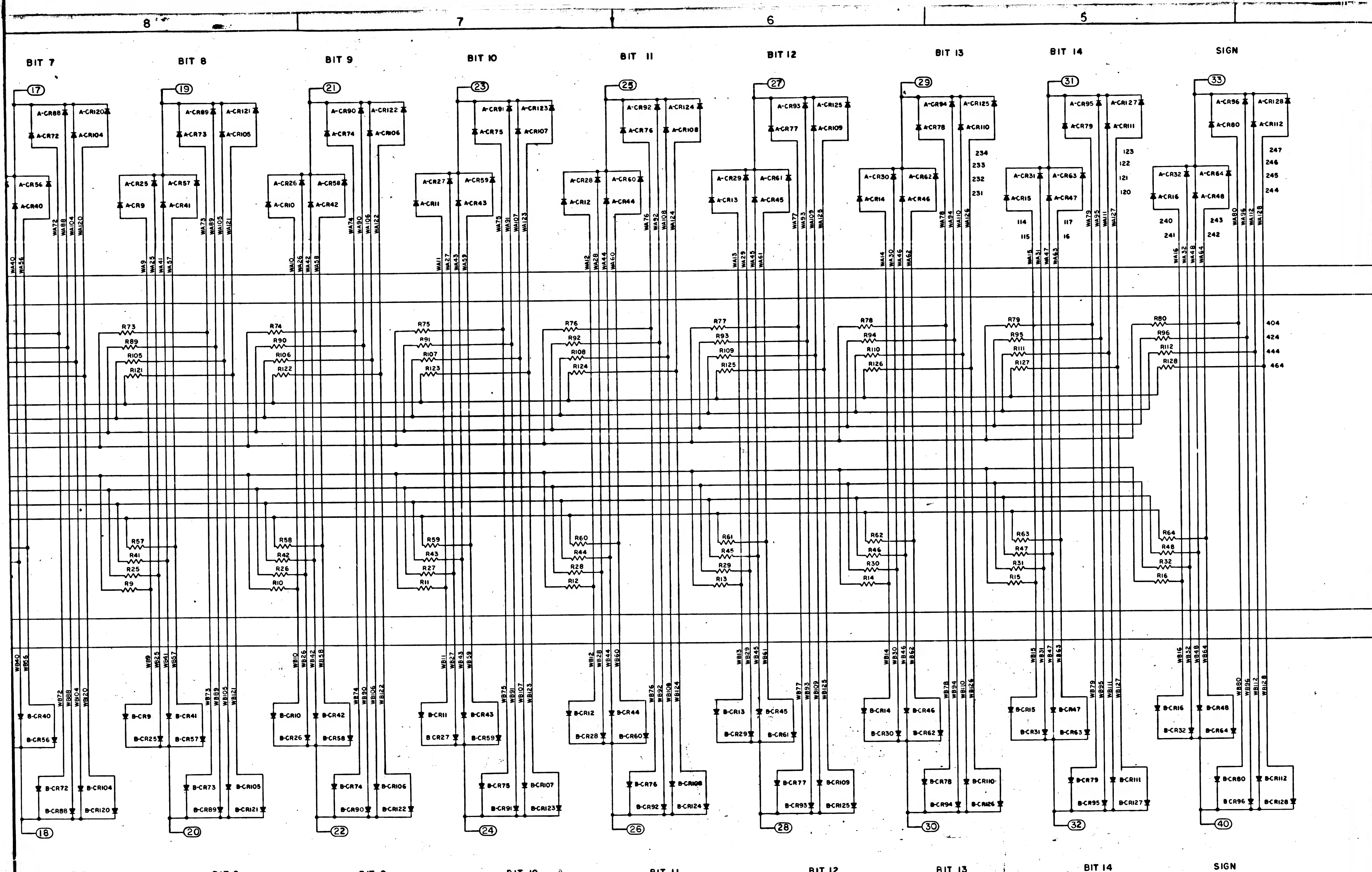
RELAY CKT FOR K1 THRU K5, K7 THRU K11,
K13 THRU K17, & K19 THRU K42

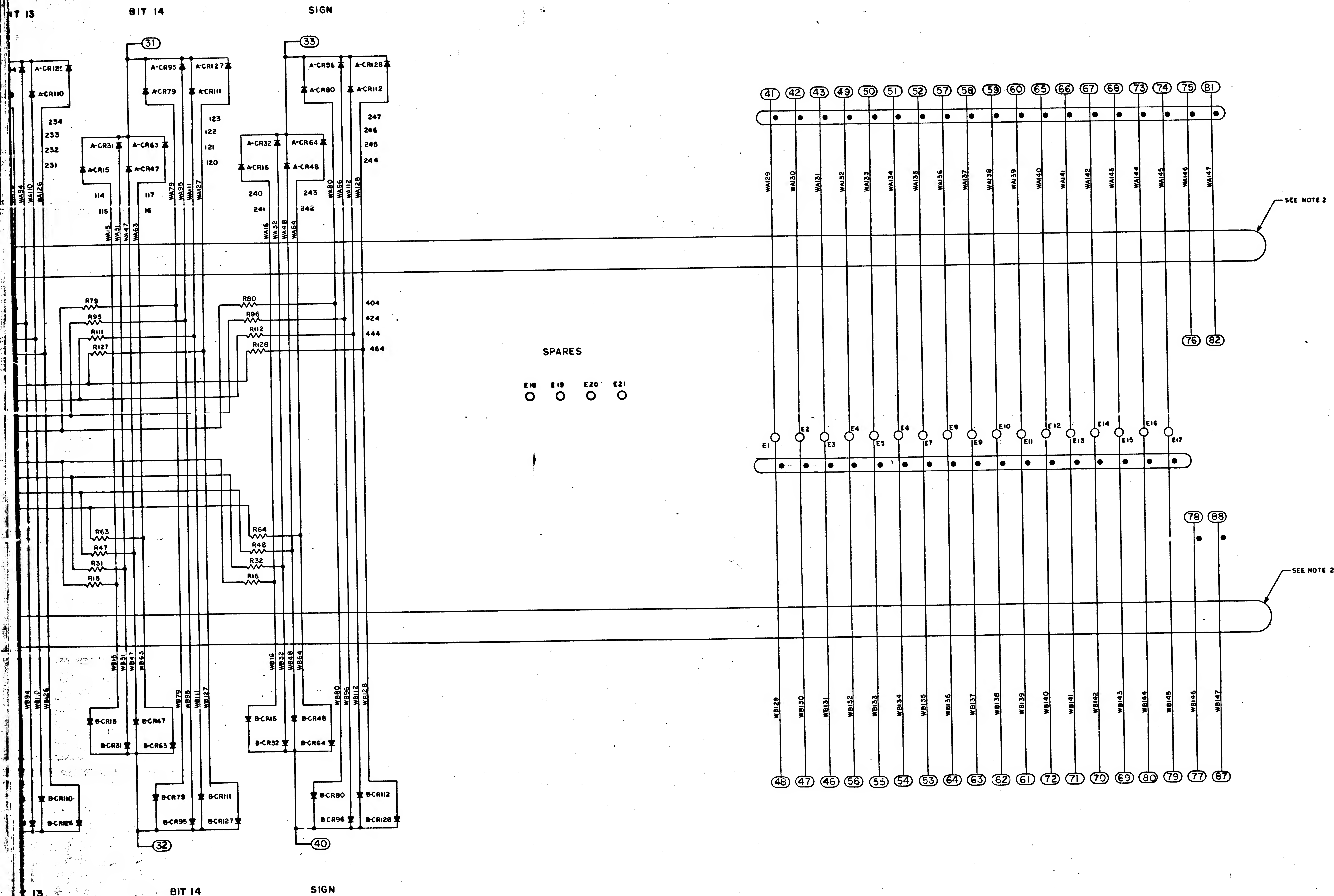
NOTES:

1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.

QTY REQD		PART OR IDENTIFYING NO		NOMIN DATE	
				LIST OF MATERIALS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES * * * DO NOT SCALE THIS DRAWING MATERIAL		MITY INSTRUMENTATION LAB CAMERO NAME PROJECT DRAWN BY: <i>Donna</i> DATE: <i>6-6-68</i> CHECKED: <i>W. J. ...</i>		MANNED SPACE HOUR SCHE RELAY MOD	
		APPROVAL: <i>W. J. ...</i> APPROVAL: <i>W. J. ...</i> APPROVAL: <i>W. J. ...</i> HASA APPROVAL: <i>W. J. ...</i>		CO IDENT NO SUN J	
		MEAT TREATMENT FINAL FINISH NEXT ASSY USED ON APPLICATION		MIT APPROVAL MIT APPROVAL MIT APPROVAL	



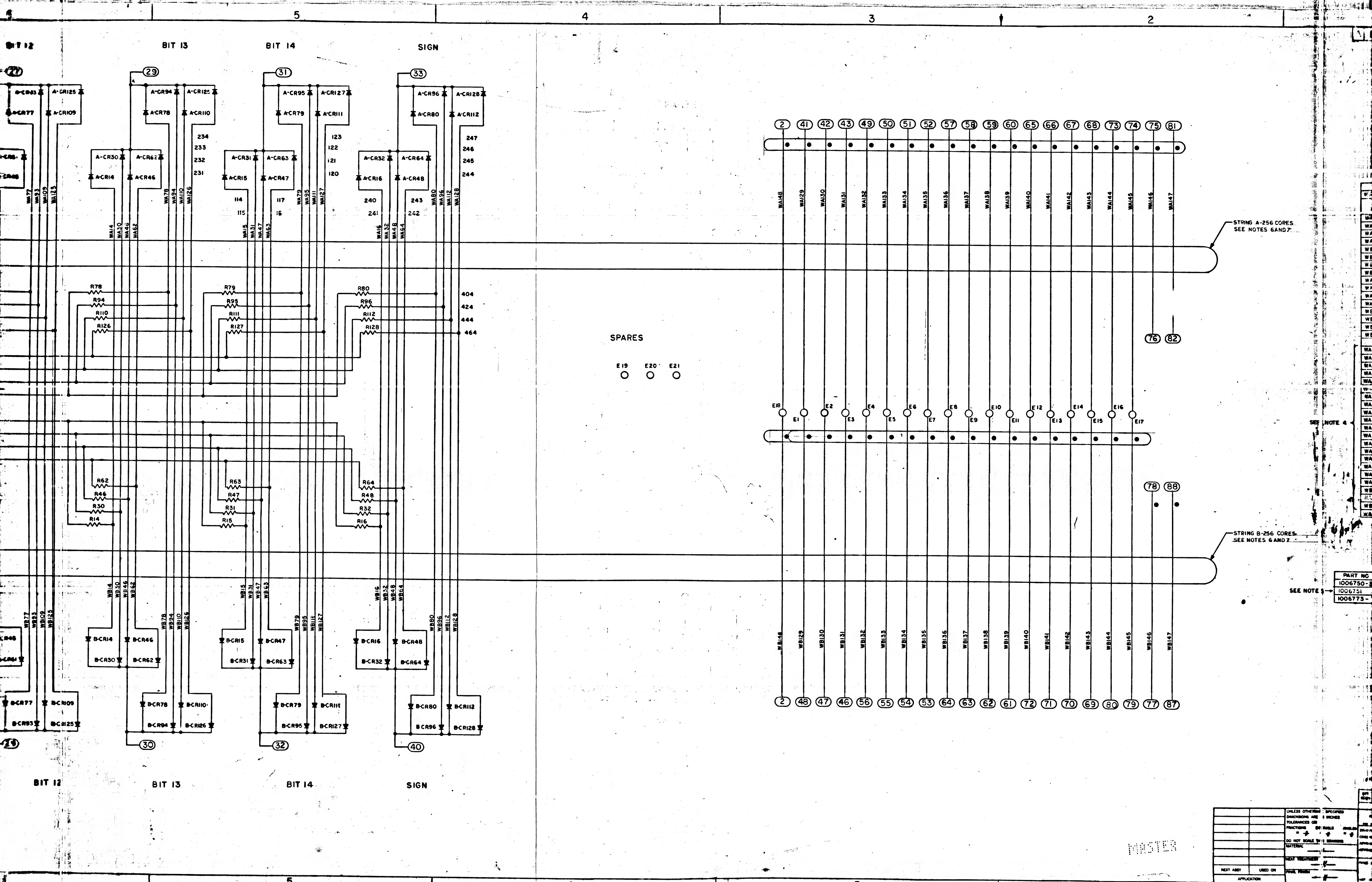




WIRE DESIGNATION	WIRI ASSIGNMENT TABLE			
	FUNCTION			
	STICK OF ROPE			
	R	S	T	
WA1 - WA16	5500	5520	5540	
WA17 - WA32	5501	5532	5544	
WA33 - WA48	5502	5522	5544	
WA49 - WA64	5503	5527	5544	
WB1 - WB16	5504	5524	5544	
WB17 - WB32	5505	5525	5544	
WB33 - WB48	5506	5525	5545	
WB49 - WB64	5507	5527	5547	
WA65 - WA80	55100	55120	55140	
WA81 - WA96	55101	55121	55141	
WA97 - WA112	55102	55122	55142	
WA113 - WA128	55103	55123	55143	
WB65 - WB80	55104	55124	55144	
WB81 - WB96	55105	55125	55145	
WB97 - WB112	55106	55126	55146	
WB113 - WB128	55107	55127	55147	
WA#WB129	RESET			
WA#WB130	7			
WA#WB131	Y			
WA#WB132	6			
WA#WB133	8			
WA#WB134	5			
WA#WB135	3			
WA#WB136	4			
WA#WB137	X			
WA#WB138	3			
WA#WB139	3			
WA#WB140	2			
WA#WB141	Z			
WA#WB142	I			
WA#WB143	T			
WA#WB144	P			
WA#WB145	F			
WA146	SET A			
WB146	SET C			
WA147	SET B			
WB147	SET D			

PART NO	DESCRIPTION	VALUE
1006750-39	RESISTOR	2000
1006751	DIODE	
1006773-	CORE	

		QTY REQD		PART C-1 IDENTIFYING NO.		LIST OF MATERIALS	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		MATERIAL INSTRUMENTATION & NO.		DRAWING	
		TOLERANCES ON FRACTIONS DECIMALS ANGLES		SPECIES		DATE	
		± × × × ×		DRAWN BY <i>John H. [Signature]</i>		DATE <i>7/2/63</i>	
		DO NOT SCALE THIS DRAWING		APPROVAL <i>John H. [Signature]</i>		DATE <i>7-7</i>	
		MATERIAL <i>H</i>		APPROVAL <i>John C. [Signature]</i>		DATE <i>Aug. 29</i>	
		HEAT TREATMENT <i>H</i>		MADA APPROVAL <i>W. B. [Signature]</i>		DATE <i>7-10-63</i>	
NEXT ASBY USED ON		FINAL REVIEW <i>H</i>		NET APPROVAL <i>John H. [Signature]</i>		SCALE <i>1" = 1"</i>	
APPLICATION							



		UNLESS OTHERWISE DIMENSIONS ARE TOLERANCES OR FRACTIONS DO NOT SCALE TO 1/8 INCHES MATERIAL	SPECIFIED IN INCHES DINAILS WELDED WELDED
		WELD VENTILATION	
NEXT ASBY	USED ON	PAVIL PAVIL	
APPLICATION			



WA#WB129	RESET
WA#WB130	7
WA#WB131	7
WA#WB132	6
WA#WB133	6
WA#WB134	5
WA#WB135	5
WA#WB136	4
WA#WB137	4
WA#WB138	3
WA#WB139	3
WA#WB140	2
WA#WB141	2
WA#WB142	1
WA#WB143	1
WA#WB144	P
WA#WB145	P
WA146	SET A
WB146	SET C
WA147	SET B
WB147	SET D
WB148	TEST LINE

SEE NOTE 4.

STRING B-256 CORE
SEE NOTES 6 AND 7

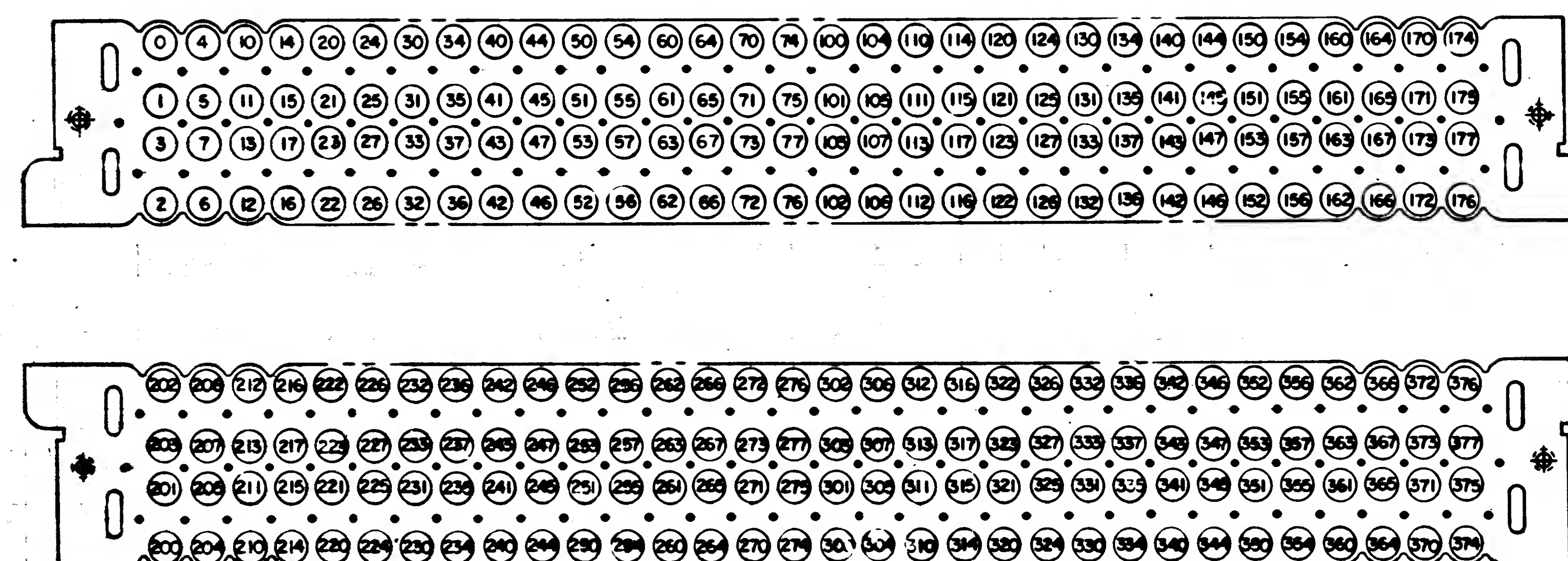
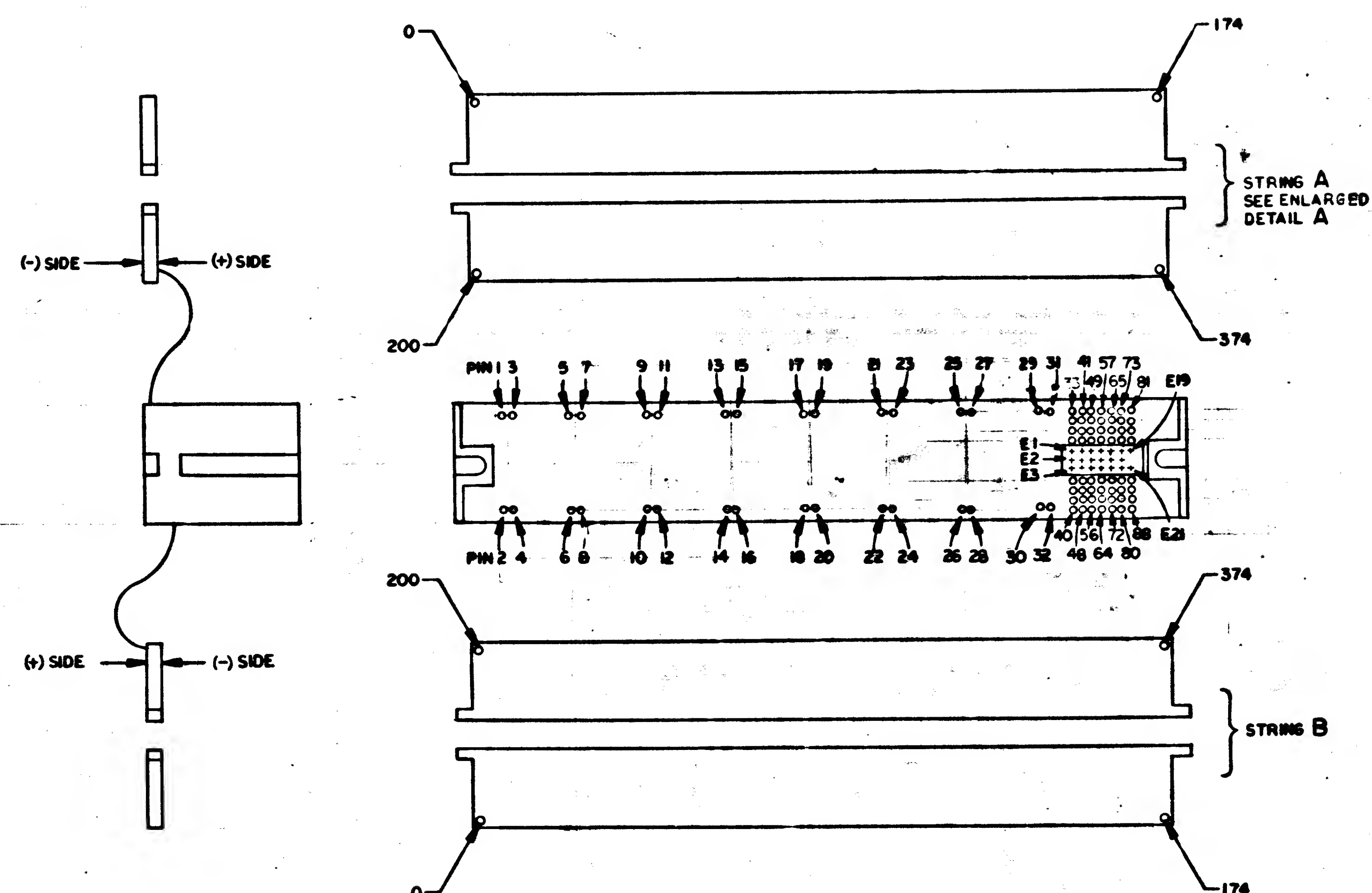
PART NO	DESCRIPTION	VAL
1006750-39	RESISTOR	20
1006751	DIODE	
1006773-	CORE	

SEE NOTES →

		QTY REQD		PART OR IDENTIFYING INCL.		LIST OF	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES		DIV INSTRUMENTATION LAB Commercial, Inc. DES. BY <u>W. J. [Signature]</u> DATE <u>6/23/63</u> CHECKED <u>[Signature]</u> APPROVED <u>[Signature]</u> APPROVAL <u>Chas. C. Hall, 1728 [Signature]</u>			
		DO NOT SCALE THIS DIMENSION MATERNAL		HADA APPROVAL <u>[Signature]</u> HVA APPROVAL <u>[Signature]</u>		CODE IDENT NO	
		HEAT TREATMENT					
HEAT TREAT		USED ON		FINAL PUGH			
APPLICATION						SCALE	

1006144 A

THIS SHEET ADDED PER
TDR 10/15/71



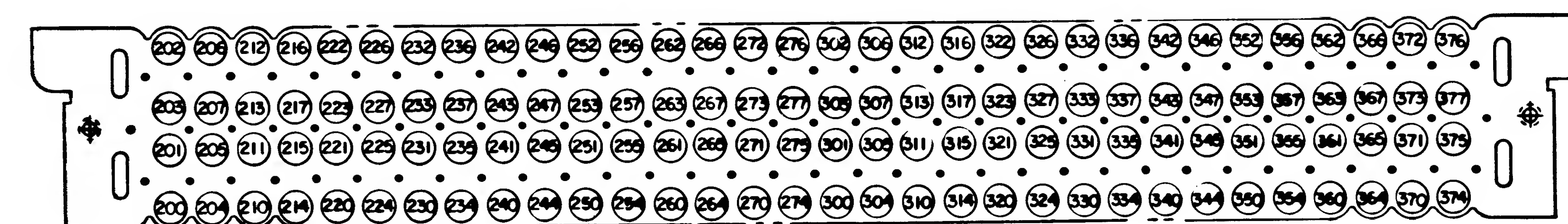
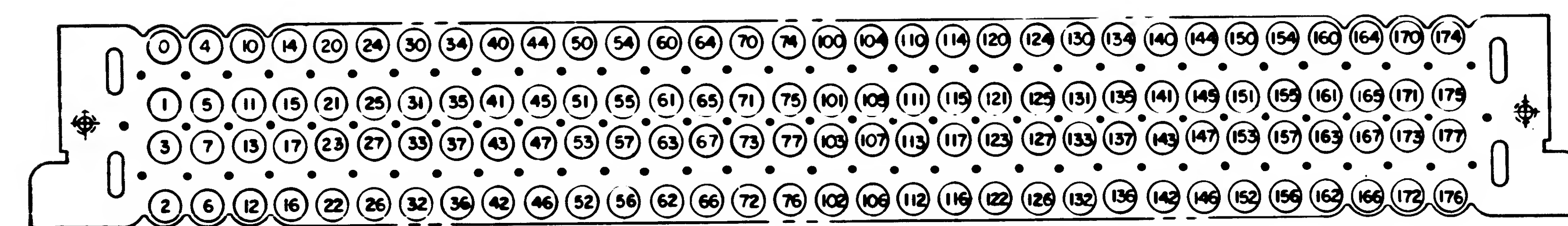
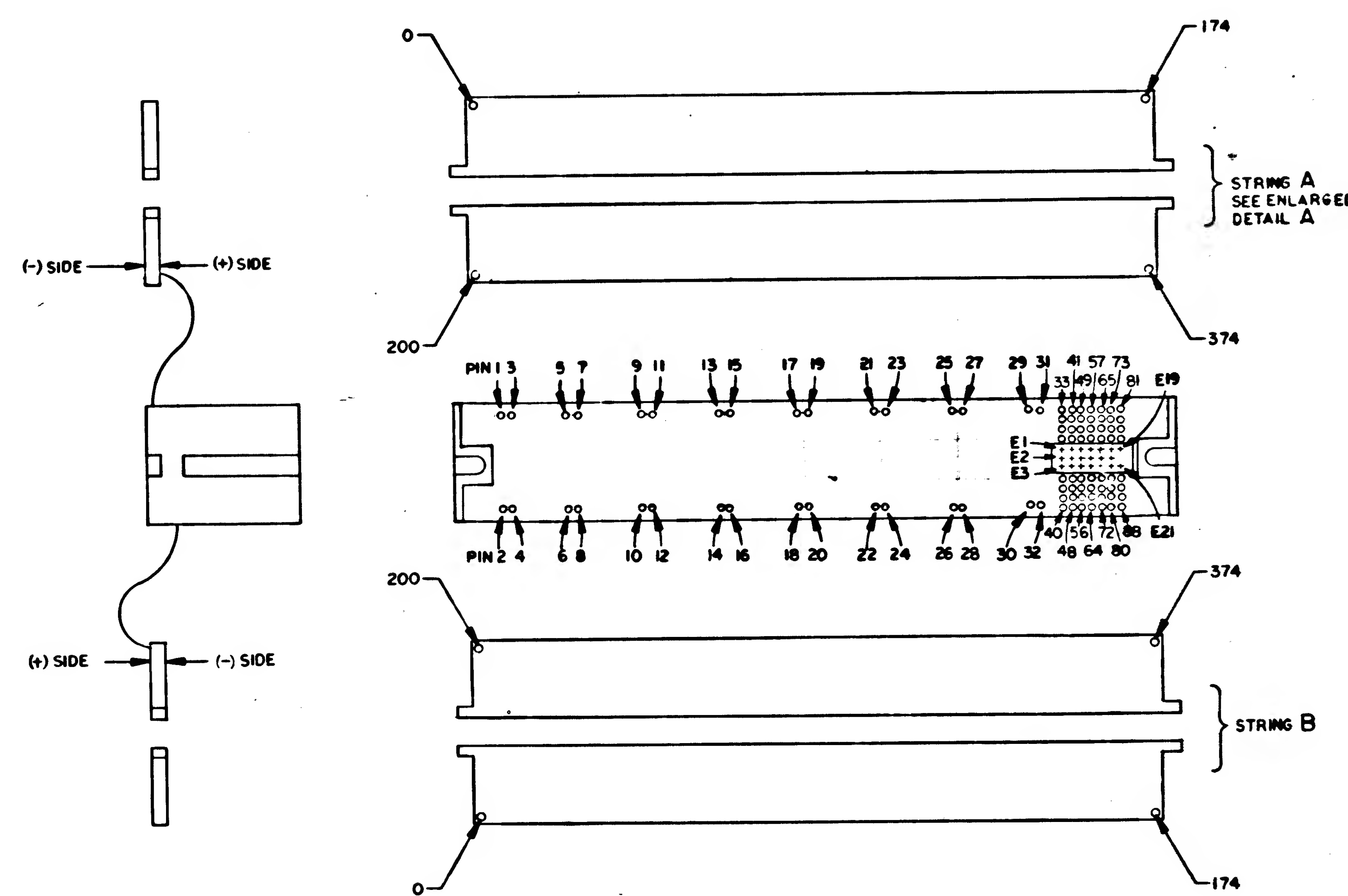
DETAIL A

REV A. THIS SHEET ADDED

QTY REQD	PART OR IDENTIFYING NO.	SYMBOL OR DESCRIPTION	UNIT
LIST OF MATERIALS			
INSTRUMENTATION LAB UNIVERSITY OF TEXAS AT AUSTIN		MAUNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN BY: [Signature]		CHECKED BY: [Signature]	
APPROVAL: [Signature]		DATE: 10/15/71	
NASA APPROVAL: [Signature]		DATE: 10/15/71	
NEXT ASSY		USED ON	
APPLICATION		FINAL DESIGN	
BY APPROVAL: [Signature]		DATE: 10/15/71	
SCALE: NONE		UNIT: INCHES	

1006144 A

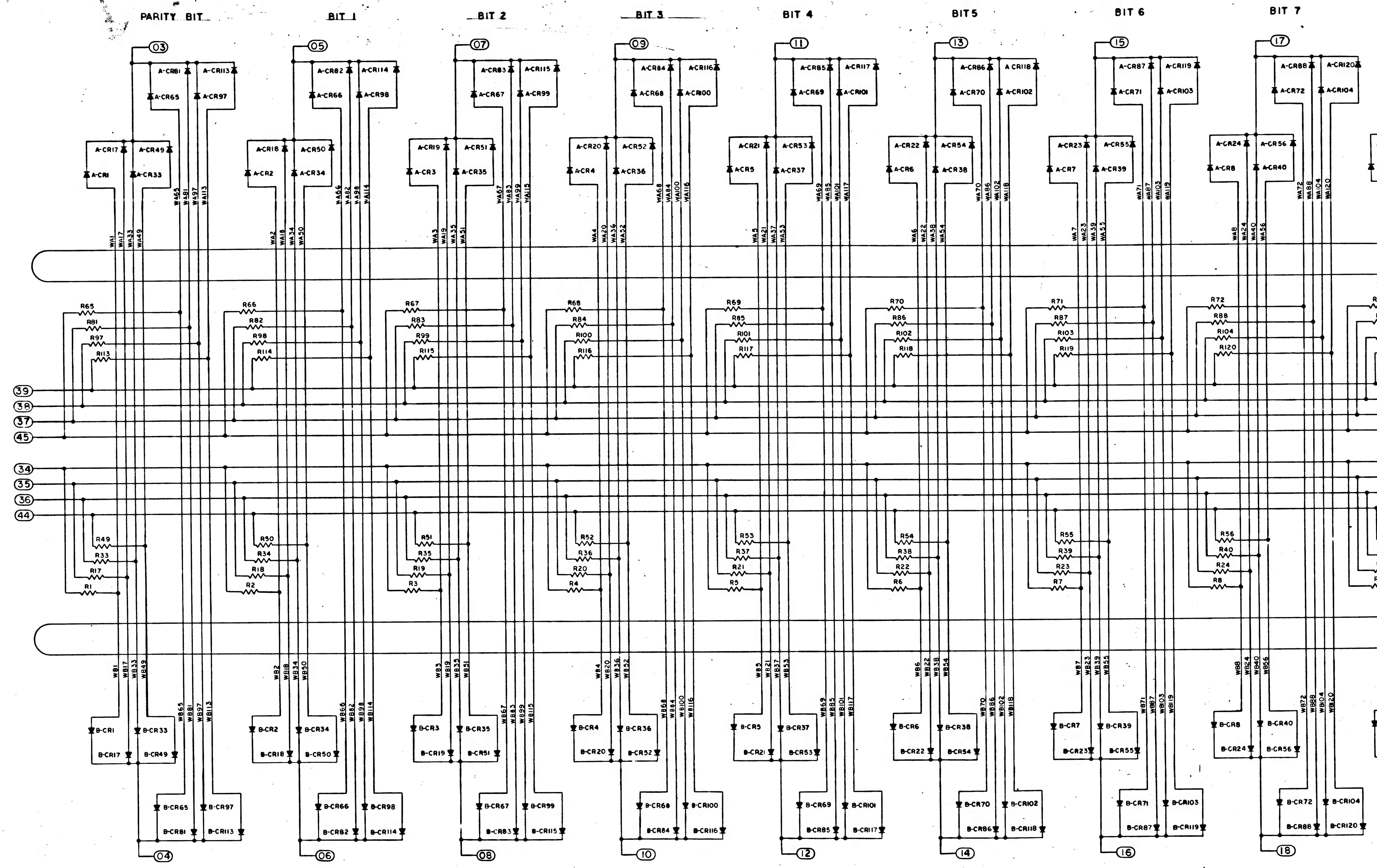
1006144 A



DETAIL A

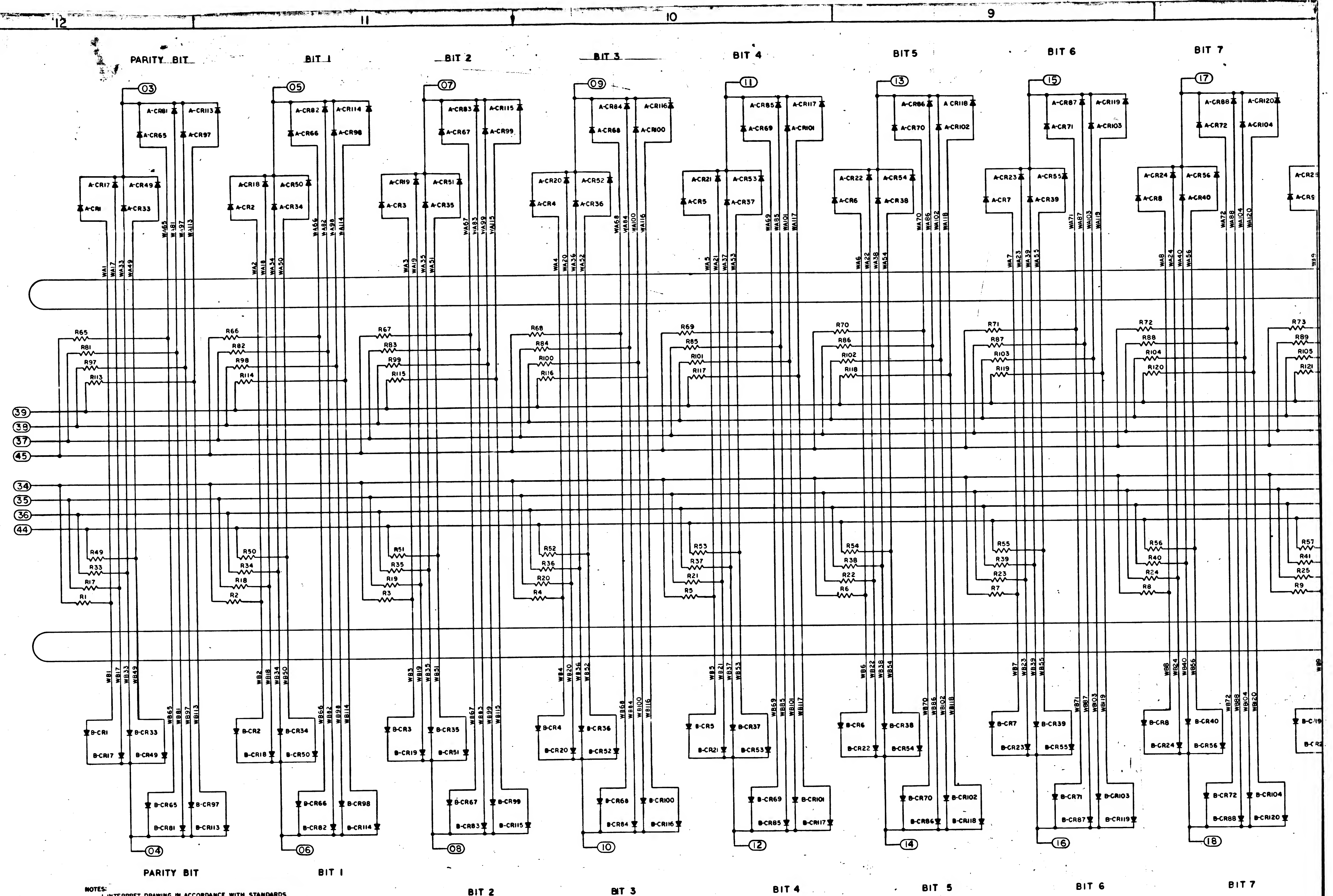
REV A. THIS

QTY		PART C	
REQD		IDENTIFYING	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES		MATERIAL	
DO NOT SCALE THIS DRAWING		HEAT TREATMENT	
MATERIAL		FINISH	
NEXT ASSY		USED ON	
APPLICATION		DATE	
DRAWN BY		CHECKED BY	
APPROVED BY		MATERIAL	
MATERIAL		HEAT TREATMENT	
FINISH		DATE	



NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. 5/16" CORES ARE THREADED OR BY PASSED WITH ENCLOSURE
3. LINES IN ACCORDANCE WITH ASSY SPEC
4. PREFIX LETTER OF REF DESIGNATIONS OF DIODES DENOTES STRING NUMBER
5. "BAR" WIRES DO NOT THREAD FIRST CORE AND DO THREAD LAST CORE
6. DIODES MUST BE MATCHED PAIRS
7. FOR INHIBIT WIRING THRU CORES - SEE 1003821
8. SENSE WIRING THRU CORES IN ACCORDANCE WITH APPLICABLE MODULE DECK
9. THE CONNECTIONS TO THE ANODES OF THE A AND B DIODES ASSOCIATED WITH EACH SENSE WIRE MAY BE INTERCHANGED TO OPTIMIZE ELECTRICAL RESPONSE
10. FOR APPLICABLE CORE SEE ROPE MEMORY SUBASSEMBLY DRAWING 1003821



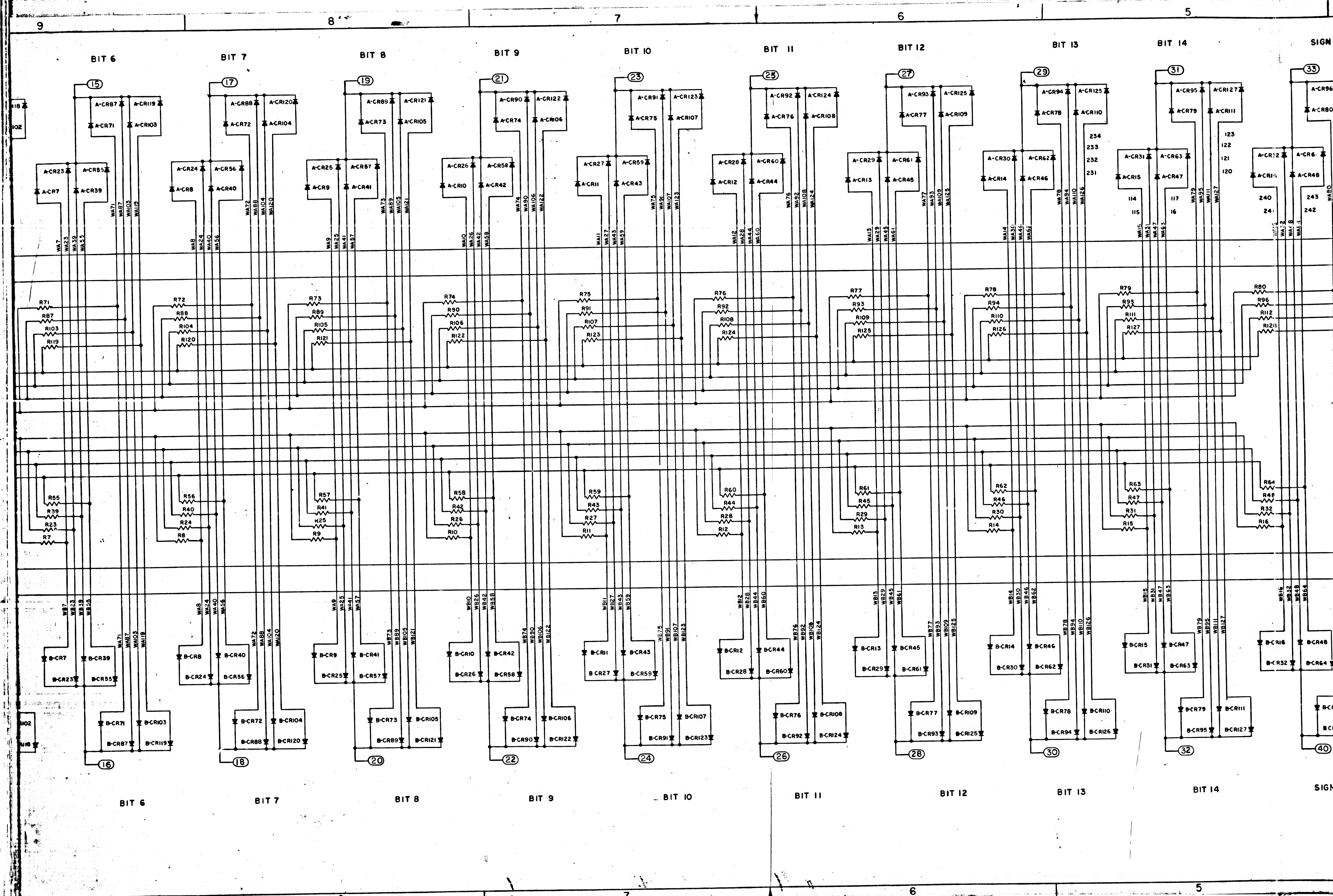
NOTES:
 1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. 24-2 CORES ARE THREADED OR BY PASSED WITH ENCL 0000
 3. PREFIX LETTER OF REF DESIGNATIONS OF DIODES DENOTES STRING NUMBER
 4. "BAR" WIRES DO NOT THREAD FIRST CORE AND DO THREAD LAST CORE
 5. DIODES MUST BE MATCHED PAIRS
 6. FOR INHIBIT WIRING THRU CORES - SEE 1003821
 7. SENSE WIRING THRU CORES IN ACCORDANCE WITH APPLICABLE MODULE DECK

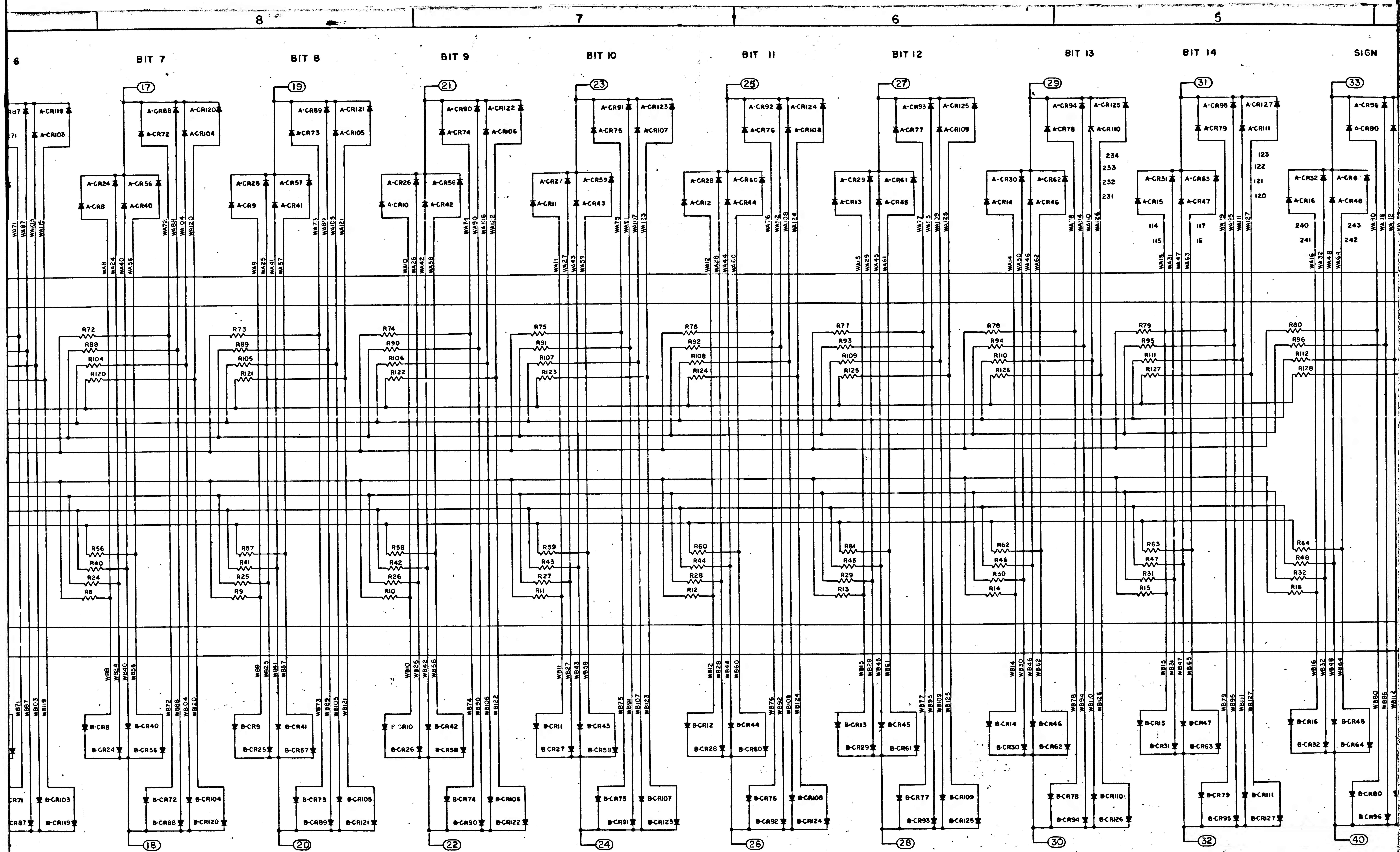
1006144-C

F-1-43

INHIBIT WIRING TABLE

WIRE NO.	STRING A	STRING B	SOLDER TO PIN
129			41
130			E1
131			E2
132			E3
133			E4
134			E5
135			E6
136			E7
137			E8
138			E9
139			E10
140			E11
141			E12
142			E13
143			E14
144			E15
145			E16
146			E17
147			E18
148			E19
149			E20
150			E21
151			E22
152			E23
153			E24
154			E25
155			E26
156			E27
157			E28
158			E29
159			E30
160			E31
161			E32
162			E33
163			E34
164			E35
165			E36
166			E37
167			E38
168			E39
169			E40
170			E41
171			E42
172			E43
173			E44
174			E45
175			E46
176			E47
177			E48
178			E49
179			E50
180			E51
181			E52
182			E53
183			E54
184			E55
185			E56
186			E57
187			E58
188			E59
189			E60
190			E61
191			E62
192			E63
193			E64
194			E65
195			E66
196			E67
197			E68
198			E69
199			E70
200			E71
201			E72
202			E73
203			E74
204			E75
205			E76
206			E77
207			E78
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209			E80
210			E81
211			E82
212			E83
213			E84
214			E85
215			E86
216			E87
217			E88
218			E89
219			E90
220			E91
221			E92
222			E93
223			E94
224			E95
225			E96
226			E97
227			E98
228			E99
229			E100
230			E101
231			E102
232			E103
233			E104
234			E105
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236			E107
237			E108
238			E109
239			E110
240			E111
241			E112
242			E113
243			E114
244			E115
245			E116
246			E117
247			E118
248			E119
249			E120
250			E121
251			E122
252			E123
253			E124
254			E125
255			E126
256			E127
257			E128
258			E129
259			E130
260			E131
261			E132
262			E133
263			E134
264			E135
265			E136
266			E137
267			E138
268			E139
269			E140
270			E141
271			E142
272			E143
273			E144
274			E145
275			E146
276			E147
277			E148
278			E149
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280			E151
281			E152
282			E153
283			E154
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292			E163
293			E164
294			E165
295			E166
296			E167
297			E168
298			E169
299			E170
300			E171
301			E172
302			E173
303			E174
304			E175
305			E176
306			E177
307			E178
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326			E197
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329			E200
330			E201
331			E202
332			E203
333			E204
334			E205
335			E206
336			E207
337			E208
338			E209
339			E210
340			E211
341			E212
342			E213
343			E214
344			E215
345			E216
346			E217
347			E218
348			E219
349			E220
350			E221
351			E222
352			E223
353			E224
354			E225
355			E226
356			E227
357			E228
358			E229
359			E230
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361			E232
362			E233
363			E234
364			E235
365			E236
366			E237
367			E238
368			E239
369			E240
370			E241
371			E242
372			E243
373			E244
374			E245
375			E246
376			E247
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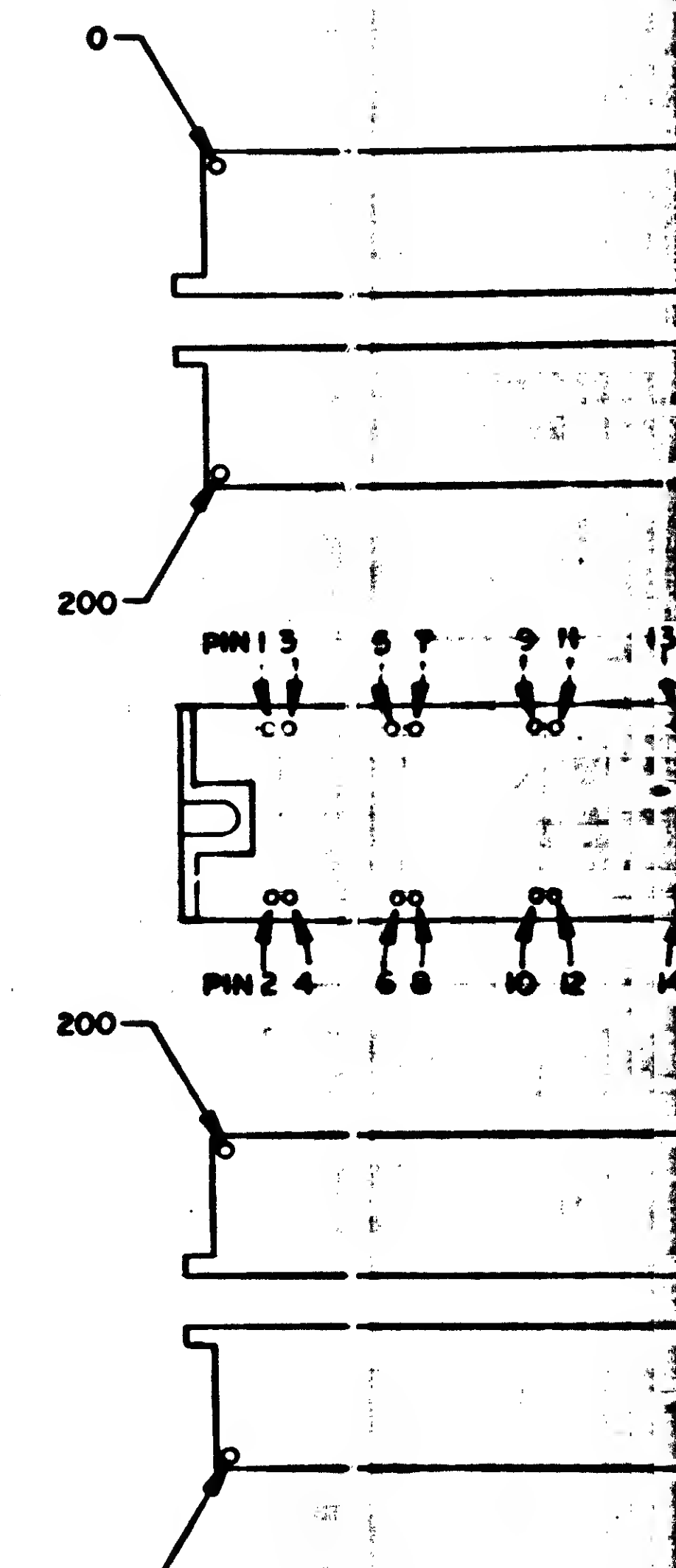
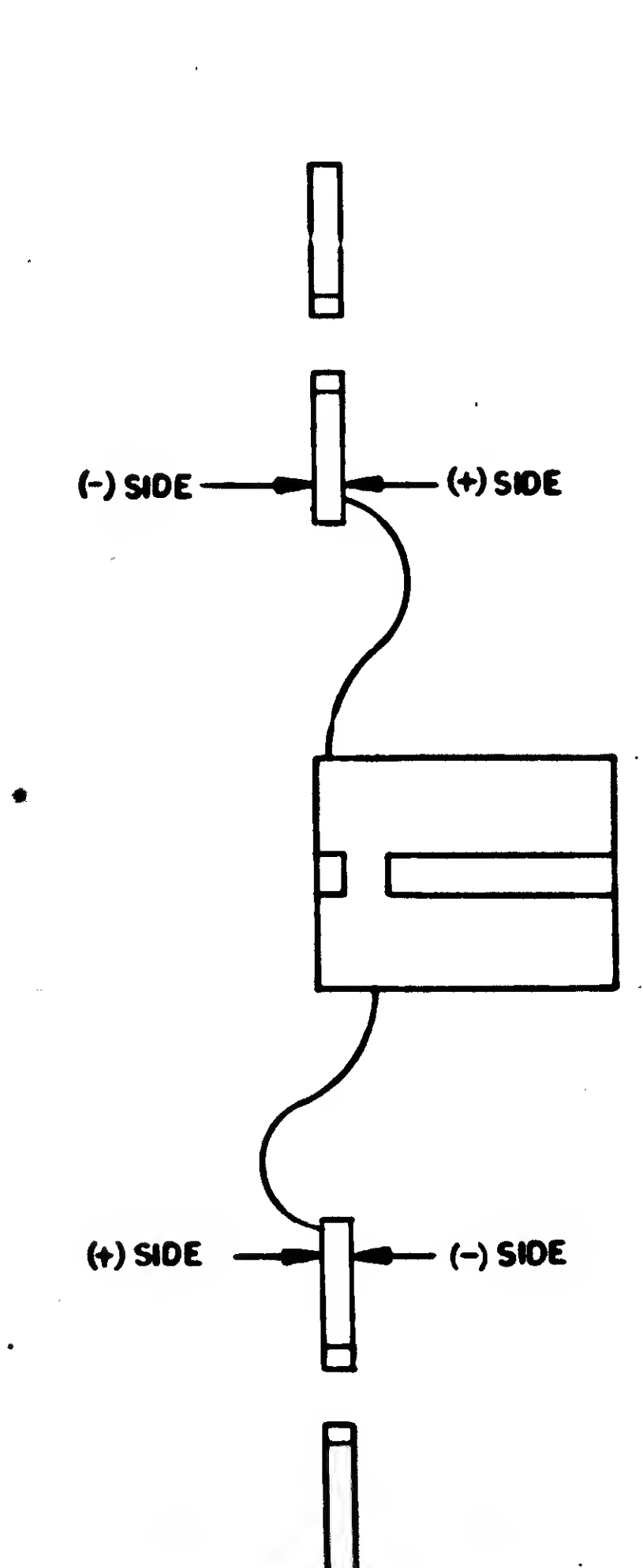


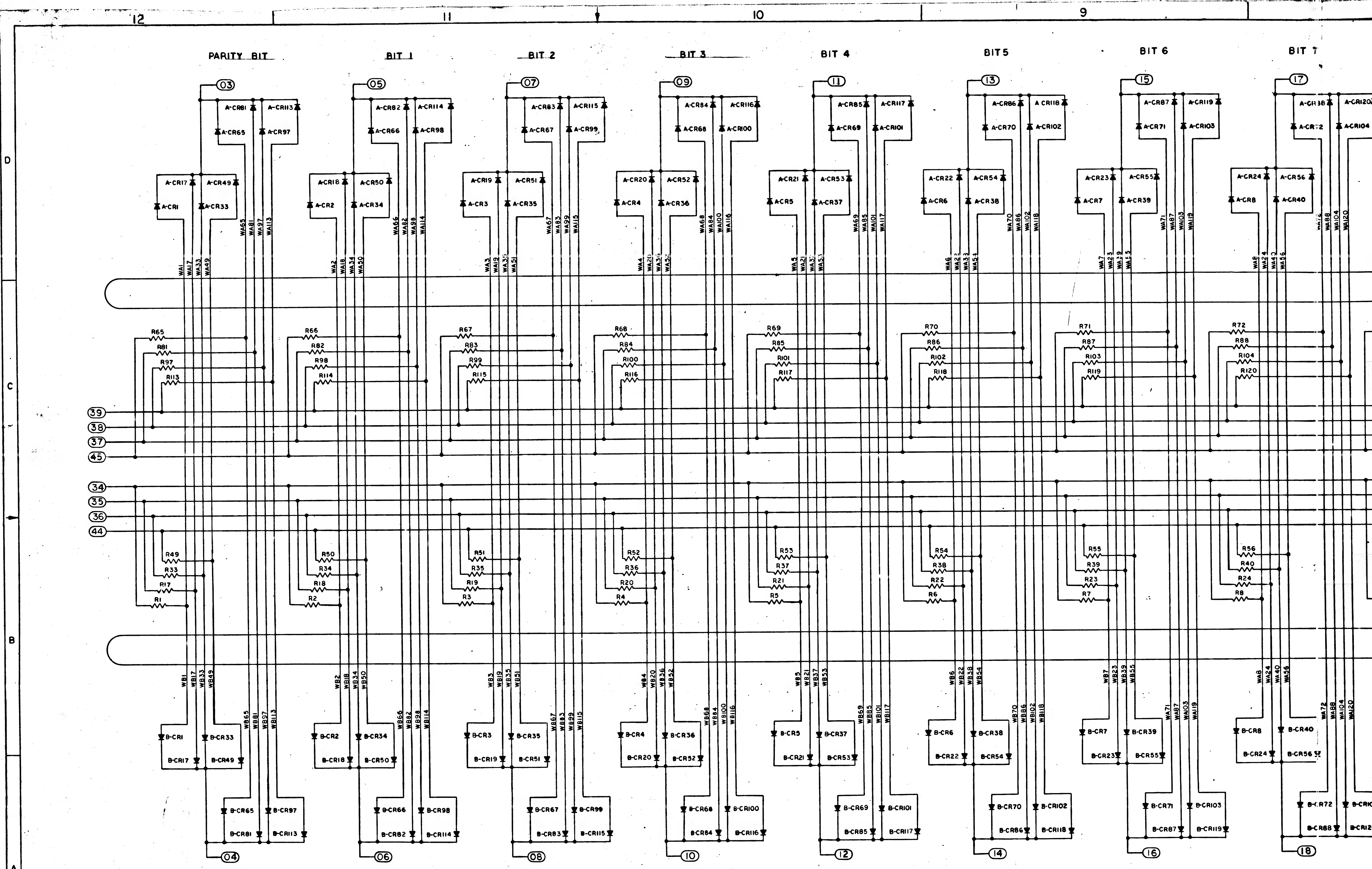
BIT 6 BIT 7 BIT 8 BIT 9 BIT 10 BIT 11 BIT 12 BIT 13 BIT 14 SIGN

ENTER CORES THRU
INDICATED SIDE

ENTER CORES THRU INDICATED SIDE		SOLDED TO PIN	
1	2	3	4
101	102	103	104
105	106	107	108
109	110	111	112
113	114	115	116
117	118	119	120
121	122	123	124
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173	174	175	176
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185	186	187	188
189	190	191	192
193	194	195	196
197	198	199	200

SOLDER TO PIN
E1
48
E2
47
E3
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E4
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E5
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E6
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E7
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E18
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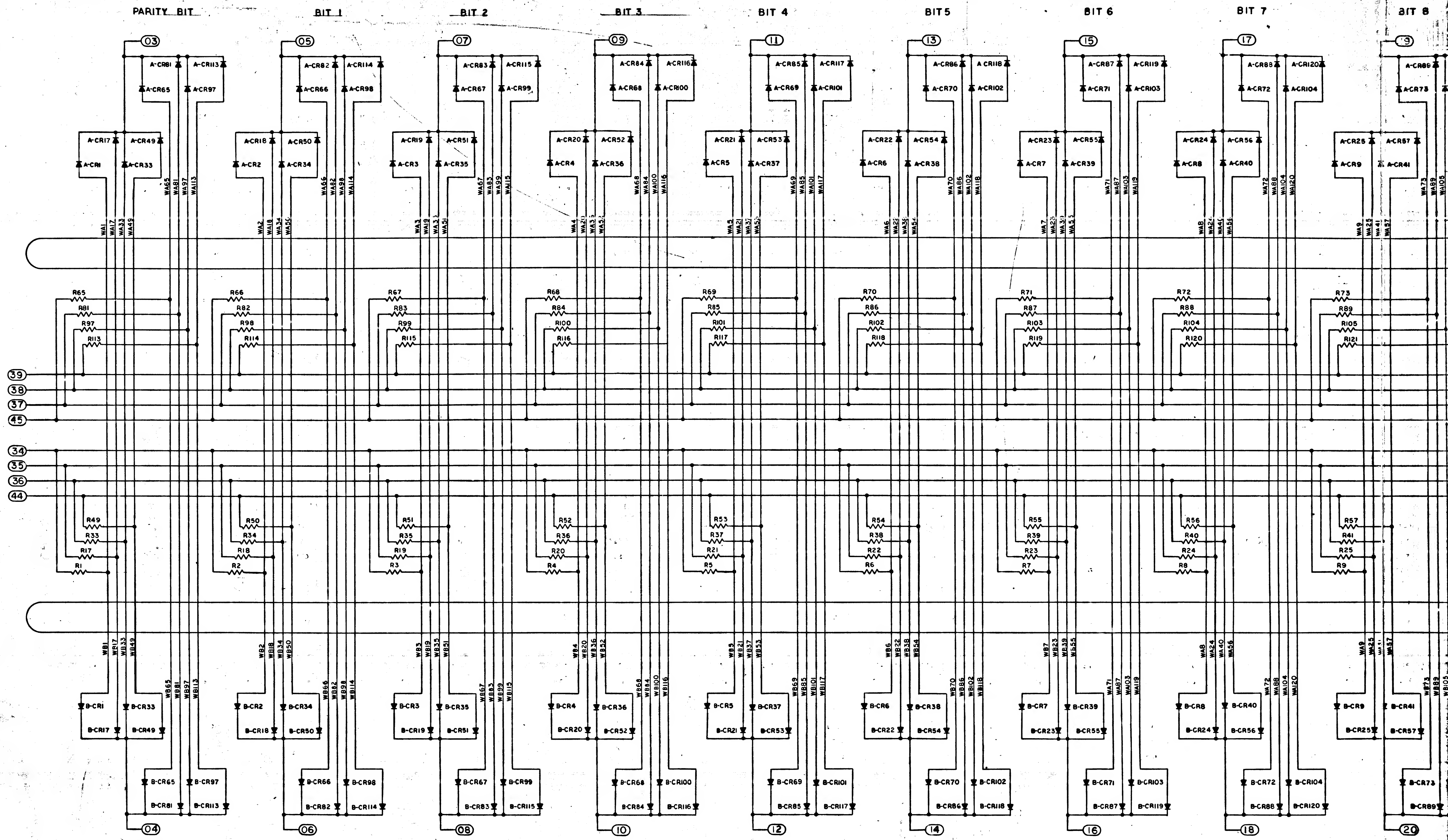


NOTES:
 1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. 512 CORES ARE THREADED OR BY PASSED WITH ENCLOSED LINES IN ACCORDANCE WITH ASSY SPEC
 3. PREFIX LETTER OF REF DESIGNATIONS OF DIODES DENOTES STRING NUMBER
 4. "BAR" WIRES DO NOT THREAD FIRST CORE AND DO THREAD LAST CORE
 5. DIODES MUST BE MATCHED PAIRS

INCHES
 0
 PHOTOGRAPHIC SCALE ONLY

F-1

1006144



NOTES:
 1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
 2. SEE CORES ARE THREADED OR BY PASSED WITH ENCLOSED LINES IN ACCORDANCE WITH ASS-1 SPEC
 3. PREFIX LETTER OF REF DESIGNATIONS OF DIODES DENOTES STRING NUMBER
 4. "BAR" WIRES DO NOT THREAD FIRST CORE AND DO THREAD LAST CORE
 5. DIODES MUST BE MATCHED PAIRS
 6. FOR INHIBIT WIRING THRU CORES - SEE SHEET 2
 7. SENSE WIRING THRU CORES IN ACCORDANCE WITH APPLICABLE MODULE DECK

INHIBIT WIRING TABLE

WIRE NO.	STRING A	STRING B	SOLDER TO PIN
129			41
130			42
131			43
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1006144 B

INHIBIT WIRING TABLE

WIRE NO.	STRING A	STRING B	SOLDER TO PIN
129	X	X	41
130	X	X	42
131	X	X	43
132	X	X	44
133	X	X	45
134	X	X	46
135	X	X	47
136	X	X	48
137	X	X	49
138	X	X	50
139	X	X	51
140	X	X	52
141	X	X	53
142	X	X	54
143	X	X	55
144	X	X	56
145	X	X	57
146	X	X	58
147	X	X	59
148	X	X	60
129	X	X	61
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132	X	X	64
133	X	X	65
134	X	X	66
135	X	X	67
136	X	X	68
137	X	X	69
138	X	X	70
139	X	X	71
140	X	X	72
141	X	X	73
142	X	X	74
143	X	X	75
144	X	X	76
145	X	X	77
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131	X	X	83
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133	X	X	85
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135	X	X	87
136	X	X	88
137	X	X	89
138	X	X	90
139	X	X	91
140	X	X	92
141	X	X	93
142	X	X	94
143	X	X	95
144	X	X	96
145	X	X	97
146	X	X	98
147	X	X	99
148	X	X	100
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140	X	X	392
141	X	X	393
142	X	X	394
143	X	X	395
144	X	X	396
145	X	X	397
146	X	X	398
147	X	X	399
148	X	X	400
129	X	X	401
130	X	X	402
131	X	X	403
132	X	X	404
133	X	X	405
134	X	X	406
135	X	X	407
136	X	X	408
137	X	X	409
138	X	X	410
139	X	X	411
140	X	X	412
141	X	X	413
142	X	X	414
143	X	X	415
144	X	X	416
145	X	X	417
146	X	X	418
147	X	X	419
148	X	X	420
129	X	X	421
130	X	X	422
131	X	X	423
132	X	X	424
133	X	X	425
134	X	X	426
135	X	X	427
136	X	X	428
137	X	X	429
138	X	X	430
139	X	X	431
140	X	X	432
141	X	X	433
142	X	X	434
143	X	X	435
144	X	X	436
145	X	X	437
146	X	X	438
147	X	X	439
148	X	X	440
129	X	X	441
130	X	X	442
131	X	X	443
132	X	X	444
133	X	X	445
134	X	X	446
135	X	X	447
136	X	X	448
137	X	X	449
138	X	X	450